

CDX-F7500/F7700

SERVICE MANUAL

Ver 1.1 2004. 04

AEP Model

UK Model

CDX-F7500/F7700

E Model

CDX-F7700



Photo: CDX-F7700

- The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-F7700/F7705X
CD Drive Mechanism Type	MG-611MA-186//K
Optical Pick-up Name	KSS1000E

SPECIFICATIONS

CD player section

Signal-to-noise ratio	120 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit

Tuner section

FM

Tuning range	87.5 – 108.0 MHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	9 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	67 dB (stereo), 69 dB (mono)
Harmonic distortion at 1 kHz	0.5% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

MW/LW

Tuning range	MW: 531 – 1,620 kHz LW: 153 – 279 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW: 30 μ V LW: 40 μ V

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	CDX-F7700: 52 W \times 4 (at 4 ohms) CDX-F7500: 50 W \times 4 (at 4 ohms)

General

Outputs	Audio output terminals (front/rear) Subwoofer output terminal (mono) Power aerial relay control terminal Power amplifier control terminal
Inputs	Telephone ATT control terminal Illumination control terminal BUS control input terminal BUS audio input or AUX IN terminal Remote controller input terminal Aerial input terminal
Tone controls	Bass \pm 8 dB at 100 Hz Treble \pm 8 dB at 10 kHz
Loudness	+8 dB at 100 Hz +2 dB at 10 kHz
Power requirements	12 V DC car battery (negative earth)
Dimensions	Approx. 178 \times 50 \times 178 mm (w/h/d)
Mounting dimensions	Approx. 182 \times 53 \times 161 mm (w/h/d)
Mass	Approx. 1.3 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1) Card remote commander RM-X140

Design and specifications are subject to change without notice.

FM/MW/LW COMPACT DISC PLAYER

9-877-604-02

2004D04-1

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e Vehicle Company

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SONY®

SERVICE NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on Chip Component Replacement

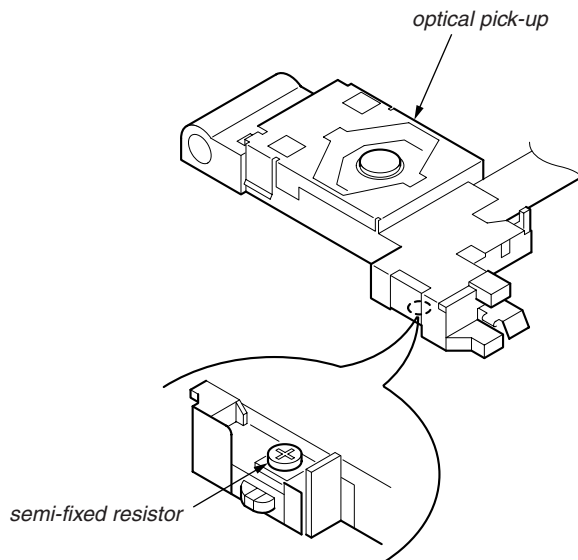
- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

If the optical pick-up block is defective, please replace the whole optical pick-up block.

Never turn the semi-fixed resistor located at the side of optical pick-up block.



TEST DISCS

This set can playback CD-R and CD-ROM discs. The following test discs should be used to check the capability:

CD-R test disc TCD-R082LMT (Part No. J-2502-063-1)

CD-RW test disc TCD-W082L (Part No. J-2502-063-2)

**CLASS 1
LASER PRODUCT**







This label is located on the bottom of the chassis.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Notes on CD-Rs (recordable CDs)/CD-RWs (rewritable CDs)

This unit can play the following discs:

Type of discs	Label on the disc
Audio CD	 
MP3 files	   

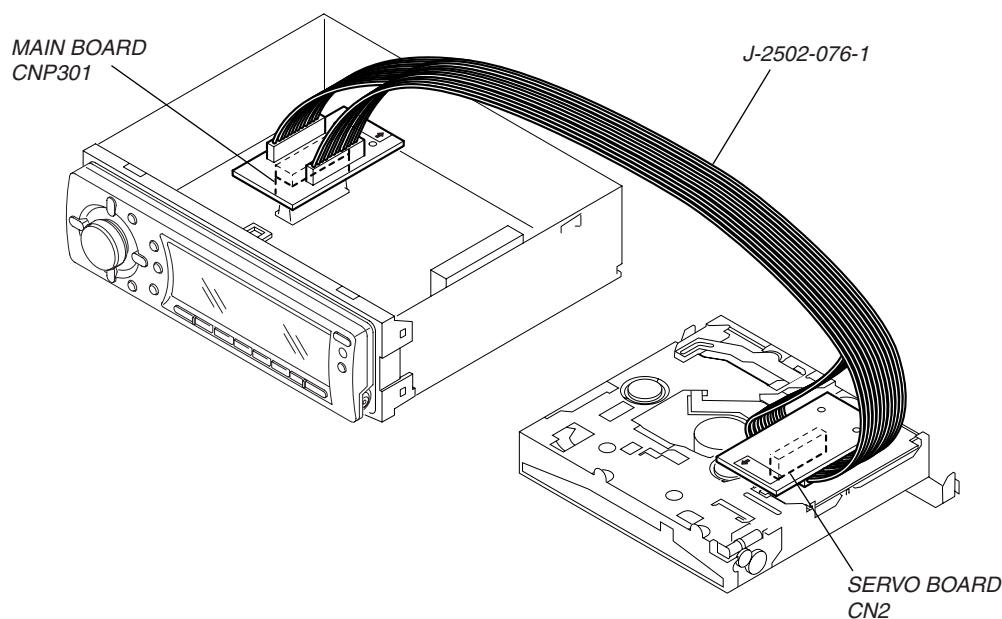
- Some CD-Rs/CD-RWs (depending on the equipment used for its recording or the condition of the disc) may not play on this unit.
- You cannot play a CD-R/CD-RW that is not finalized*.
- You can play MP3 files recorded on CD-ROMs, CD-Rs, and CD-RWs.
- A CD-R/CD-RW to which a session can be added can be played.

* A process necessary for a recorded CD-R/CD-RW disc to be played on the audio CD player.

EXTENSION CABLE AND SERVICE POSITION

When repairing or servicing this set, connect the jig (extension cable) as shown below.

- Connect the MAIN board (CN751) and the SERVO board (CN2) with the extension cable (Part No. J-2502-076-1).



● UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead. (Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

LF : LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time. Soldering irons using a temperature regulator should be set to about 350°C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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5. ELECTRICAL PARTS LIST

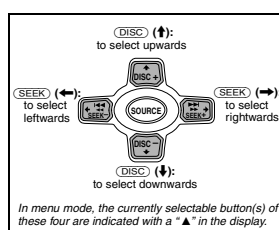
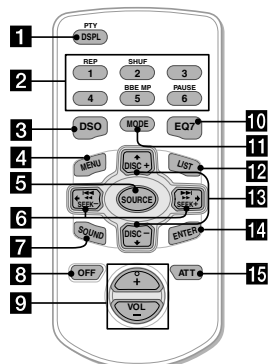
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SECTION 1 GENERAL

This section is extracted
from instruction manual.

Location of controls

Card remote commander RM-X140



Refer to the pages listed for details.

- 1 DSPL/PTY (display mode change/programme type) button** 13, 16, 19, 22, 25
- 2 Number buttons**
Radio:
To store stations/receive stored stations.
CD/MD:
①: REP 14
②: SHUF 15
③: PAUSE*1 12
Sound:
④: BBE MP*1 24
- 3 DSO button** 27
- 4 MENU button**
To display the menus.
- 5 SOURCE (Power on/Radio/CD/MD*2/AUX*3) button**
To select the source.
- 6 SEEK/AMS (←/→) buttons**
To skip tracks/fast-forward, reverse a track/tune in stations automatically, find a station manually/select a setting.
- 7 SOUND button** 24
- 8 OFF (Stop/Power off) button** 12, 29
- 9 VOL (+/-) buttons**
To turn up or down the volume.
- 10 EQ7 button** 26

- 11 MODE button**
To change operation.
 - 12 LIST button** 16, 18
 - 13 DISC (ALBUM) (↑/↓) buttons**
To receive preset stations/change the disc*4, skip albums*5/select a menu.
 - 14 ENTER button**
To enter a setting.
 - 15 ATT button** 25
- *1 Available only when playing back on this unit.
*2 When an optional MD unit is connected.
*3 Available only when an optional Sony portable device is connected to AUX IN terminal of the unit. When you connect a Sony portable device and CD/MD unit(s) at the same time, use the AUX IN selector.
*4 When an optional CD/MD unit is connected.
*5 Available only when an MP3 file is played.
- Note**
If the display disappears by pressing (OFF), it cannot be operated with the card remote commander unless (SOURCE) on the unit is pressed, or a disc is inserted to activate the unit first.
- Tip**
For details on how to replace the battery, see "Replacing the lithium battery" on page 30.

Selecting a disc and album

Disc and album can be skipped using the DISC (ALBUM) (↑/↓) buttons.

(With this unit)

To	Press
Skip albums*6	↑ or ↓ [once for each album]
– Album selection	To continuously skip albums, press and hold either button.

(With optional unit)

To	Press
Skip discs	↑ or ↓ [once for each disc]
– Disc selection	To continuously skip discs, press once and press again within about 1 second (and hold) either button.
Skip albums*6	↑ or ↓ [hold for a moment] and release.
– Album selection	To continuously skip albums, press (and hold) within about 1 second of first releasing the button.

*6 Available only when an MP3 file is played.

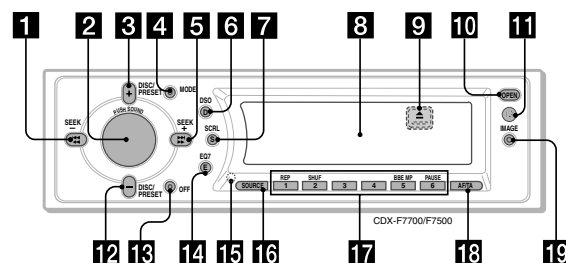
Skipping tracks continuously

Press once either SEEK/AMS (← or →) button, then press again within about 1 second and hold.

4

5

• AEP, UK Model

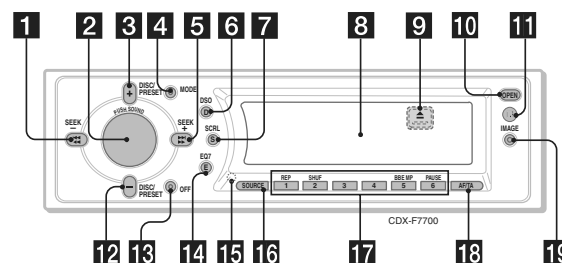


The buttons on the unit share the same functions as those on the card remote commander.

- 1 5 SEEK/AMS (←/→) buttons**
- 2 Volume control dial/SOUND button**
Rotate to:
– Adjust the volume.
– Adjust the sound settings.
Press to:
– Select the sound items.
- 3 12 DISC (ALBUM)/PRESET (+/-) buttons**
- 4 MODE button**
- 6 DSO button**
- 7 SCRL (scroll) button**
- 8 Display window**
- 9 ▲ (eject) button** (located on the front side of the unit, behind the front panel) 12
- 10 OPEN button** 10, 12
- 11 Receptor for the card remote commander**
- 13 OFF (Stop/Power off) button***
- 14 EQ7 button**
- 15 RESET button** (located on the front side of the unit, behind the front panel) 10
- 16 SOURCE button**
- 17 Number buttons**
- 18 AF/TA button** 19, 20, 21
- 19 IMAGE button** 28

* Warning when installing in a car without an ACC (accessory) position on the ignition switch
After turning off the ignition, be sure to press and hold (OFF) on the unit until the display disappears.
Otherwise, the display does not turn off and this causes battery drain.

• E Model



The buttons on the unit share the same functions as those on the card remote commander.

- 1 5 SEEK/AMS (←/→) buttons**
- 2 Volume control dial/SOUND button**
Rotate to:
– Adjust the volume.
– Adjust the sound settings.
Press to:
– Select the sound items.
- 3 12 DISC (ALBUM)/PRESET (+/-) buttons**
- 4 MODE button**
- 6 DSO button**
- 7 SCRL (scroll) button**
- 8 Display window**
- 9 ▲ (eject) button** (located on the front side of the unit, behind the front panel) 12, 12
- 10 OPEN button** 10, 12, 12
- 11 Receptor for the card remote commander**
- 13 OFF (Stop/Power off) button***
- 14 EQ7 button**
- 15 RESET button** (located on the front side of the unit, behind the front panel) 10
- 16 SOURCE button**
- 17 Number buttons**
- 18 AF/TA button** 19, 20, 20, 21, 21
- 19 IMAGE button** 28

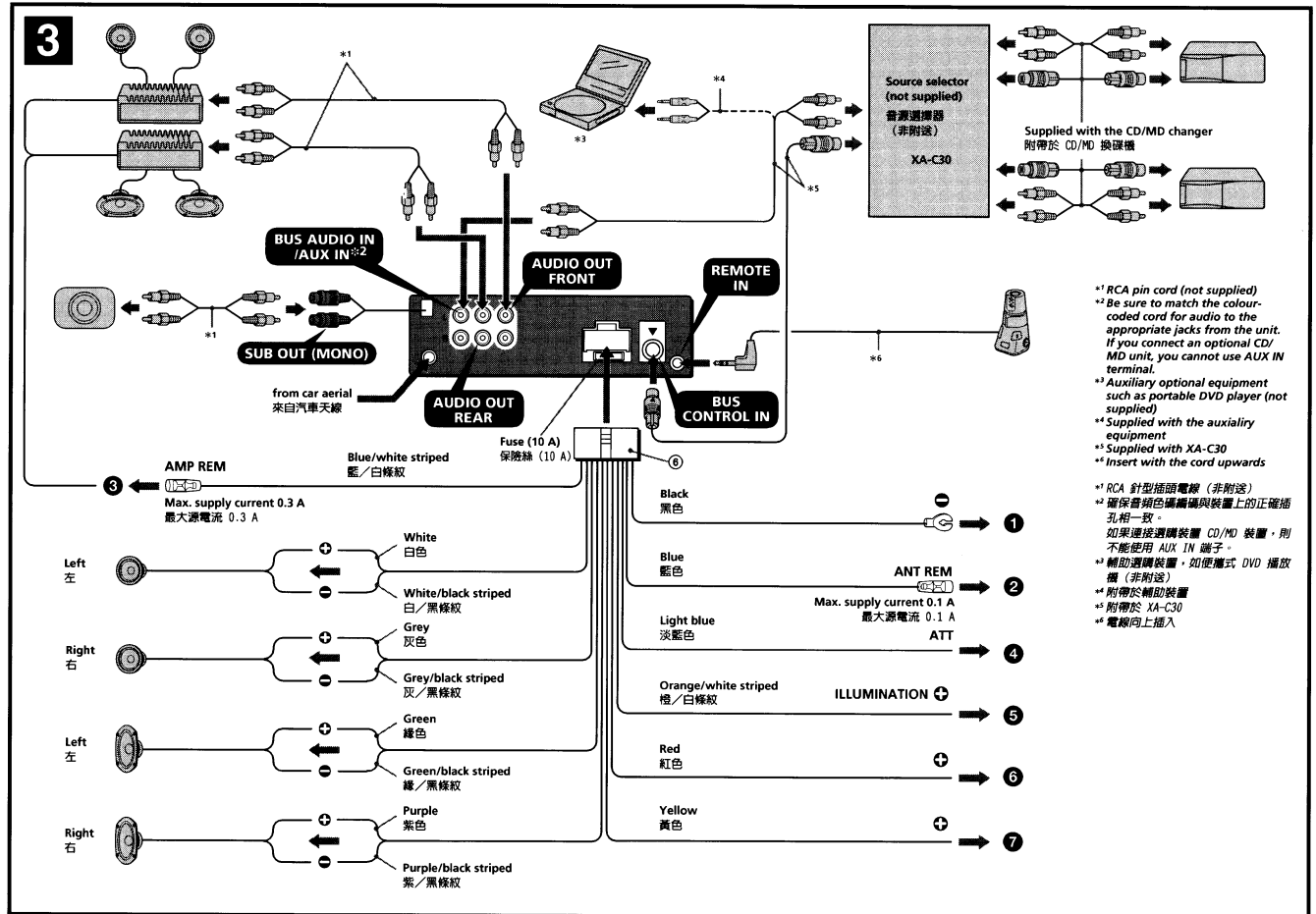
* Warning when installing in a car without an ACC (accessory) position on the ignition switch
After turning off the ignition, be sure to press and hold (OFF) on the unit until the display disappears.
Otherwise, the display does not turn off and this causes battery drain.

6

6

5

Connections (E Model)



Connection diagram (3)

- To a metal surface of the car
First connect the black earth lead, then connect the yellow and red power input leads.
- To the power aerial control lead or power supply lead of aerial booster amplifier
Notes
• It is not necessary to connect this lead if there is no power aerial or aerial booster, or with a manually-operated telescopic aerial.
• When your car has a built-in FM/MW/LW aerial in the rear/side glass, see "Notes on the control and power supply leads."
- To AMP REMOTE IN of an optional power amplifier
This connection is only for amplifiers. Connecting any other system may damage the unit.
- To the interface cable of a car telephone
- To a car's illumination signal
Be sure to connect the black earth lead to a metal surface of the car first.
- To the +12 V power terminal which is energised in the accessory position of the ignition key switch
Notes
• If there is no accessory position, connect to the +12 V power (battery) terminal which is energised at all times.
Be sure to connect the black earth lead to a metal surface of the car first.
• When your car has a built-in FM/MW/LW aerial in the rear/side glass, see "Notes on the control and power supply leads."
- To the +12 V power terminal which is energised at all times
Be sure to connect the black earth lead to a metal surface of the car first.

Notes on the control and power supply leads

- The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the AF (Alternative Frequency), TA (Traffic Announcement) function.
- When your car has built-in FM/MW/LW aerial in the rear/side glass, connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.
- A power aerial without relay box cannot be used with this unit.

Memory hold connection

When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection

- Before connecting the speakers, turn the unit off.
- Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.
- Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.
- Do not connect the earth lead of this unit to the negative (-) terminal of the speaker.
- Do not attempt to connect the speakers in parallel.
- Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.
- To avoid a malfunction, do not use the built-in speaker leads installed in your car if the unit shares a common negative (-) lead for the right and left speakers.
- Do not connect the unit's speaker leads to each other.

Note on connection

If speaker and amplifier are not connected correctly, "Failure" appears in the display. In this case, make sure the speaker and amplifier are connected correctly.

線路連接圖 (3)

- 連接至汽車的金屬表面
首先連接黑色接地導線，然後再連接黃色和紅色電源輸入導線。
- 連接至電動天線控制導線或天線升壓放大器的電源導線
• 如無電動天線，天線升壓器，或有手動套管式天線，便不須連接此導線。
• 您汽車的後/側玻璃窗中如果有內置 FM/MW/LW 天線，即請參看“控制線和電源線須知”。
- 連接至選購的功率放大器的 AMP REMOTE IN (放大器遙控輸入)
本連接僅用於放大器。連接任何其它系統可能會損壞本機。
- 連接至汽車電話的接口電纜
- 至汽車喇叭的明線
- 連接至在點火鎖匙開關的附件位置上通電的 +12 V 電源端子
註
• 若沒有附件位置，則請連接至始終通電的 +12 V 電源 (電池) 端子。
必須首先將黑色接地導線連接至汽車的金屬表面。
• 您汽車的後/側玻璃窗中如果有內置 FM/MW/LW 天線，即請參看“控制線和電源線須知”。
- 連接至始終通電的 +12 V 電源端子
必須首先將黑色接地導線連接至汽車的金屬表面。

控制線和電源線須知

- 當您打開調諧器或啟動 AF (雙頻頻率) 或 TA (交通公告) 功能時，電源天線控制導線 (藍色) 提供 +12 V 直流電。
- 若您的汽車後/側玻璃窗上有內置 FM/MW/LW 天線，須將電動天線控制導線 (藍色) 或輔助電源輸入導線 (紅色) 連接至有天線升壓器上的電源端子上。詳細內容請向銷售商諮詢。
- 本機不能使用不具備繼電器盒的電動天線。

保持配線的線路連接法

當連接好黃色電源輸入導線時，即使汽車發動機點火開關閉，電源仍將對記憶電路供電。

連接揚聲器時的注意事項

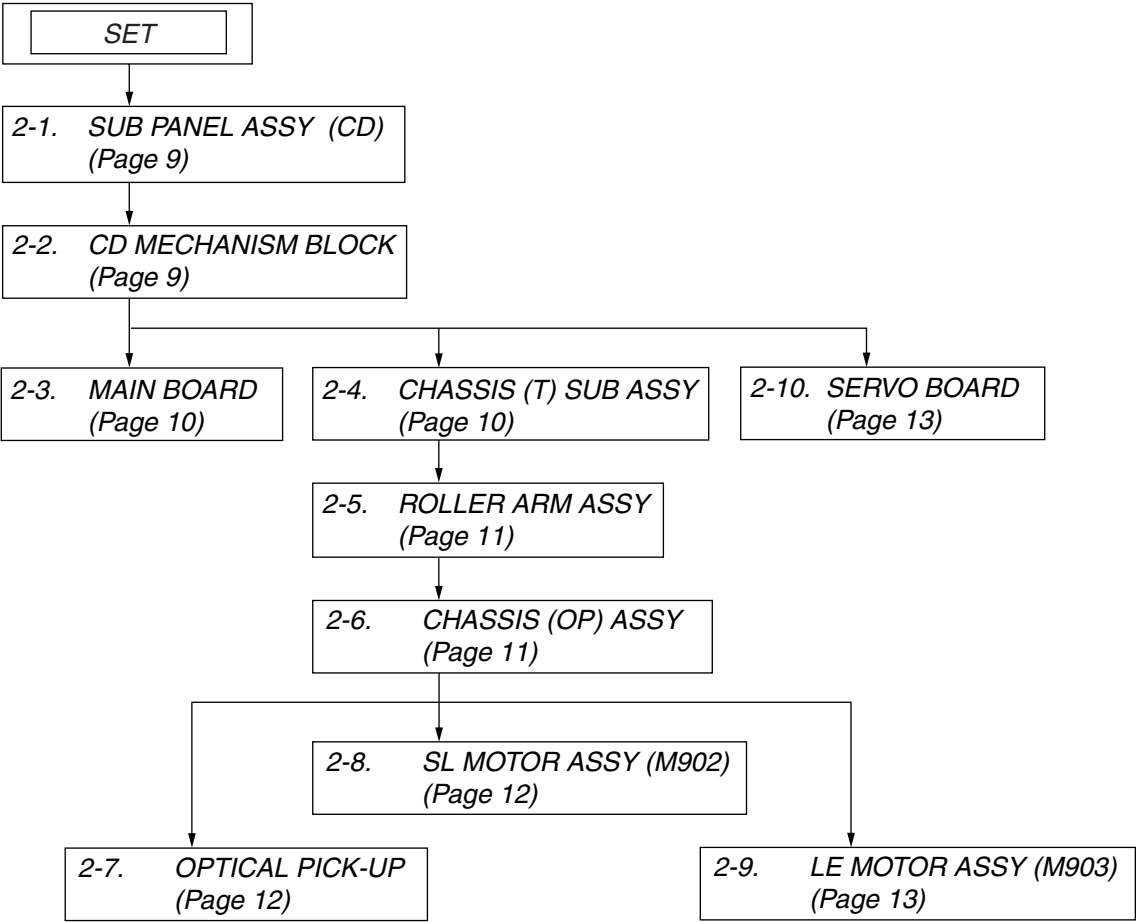
- 連接揚聲器電線以前，請先關閉本機電源。
- 使用阻抗為 4-8 Ω 且具有足夠功率處理容量的揚聲器，以免損壞揚聲器。
- 不要將揚聲器端子連接至車身上，或將右揚聲器端子與左揚聲器端子相連接。
- 切勿將本機的接地導線連接至揚聲器的負 (-) 接線端。
- 揚聲器不可並聯連接。
- 請僅連接無源揚聲器。若將有源揚聲器 (帶內置放大器) 連接至揚聲器端子上會損壞本機。
- 若本裝置使用左、右揚聲器的共用負 (-) 導線，為了避免故障，切勿使用已安裝在汽車內的內置揚聲器導線。
- 請勿將本裝置揚聲器導線相互連接。

有關連接注意事項

如果未正確連接揚聲器和放大器，則顯示幕上會出現 "Failure"。此時，請正確連接揚聲器和放大器。

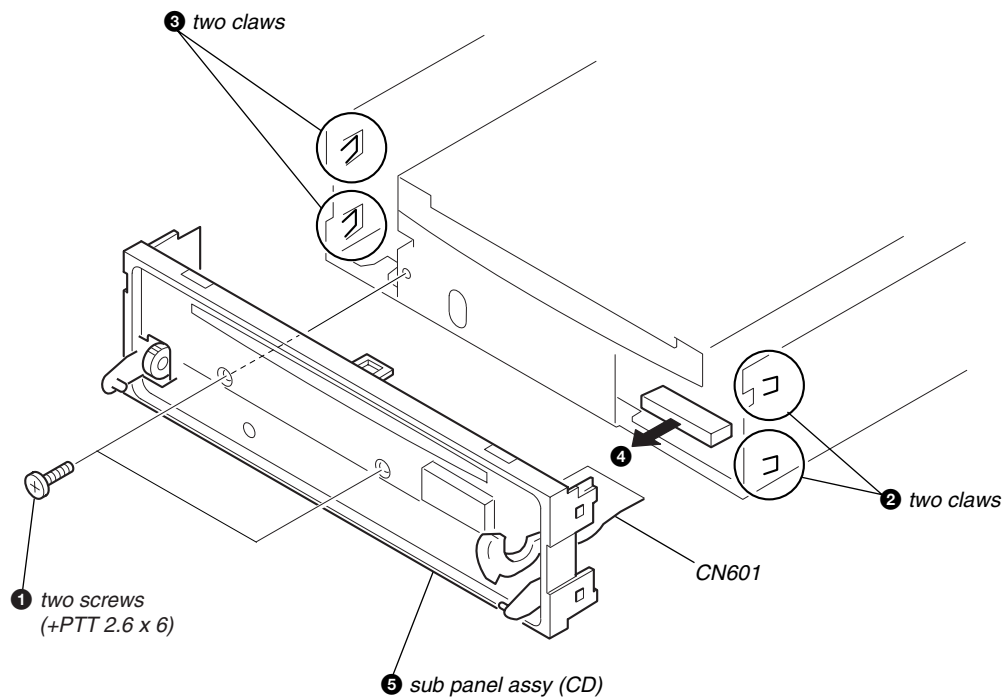
SECTION 2
DISASSEMBLY

Note : This set can be disassemble according to the following sequence.

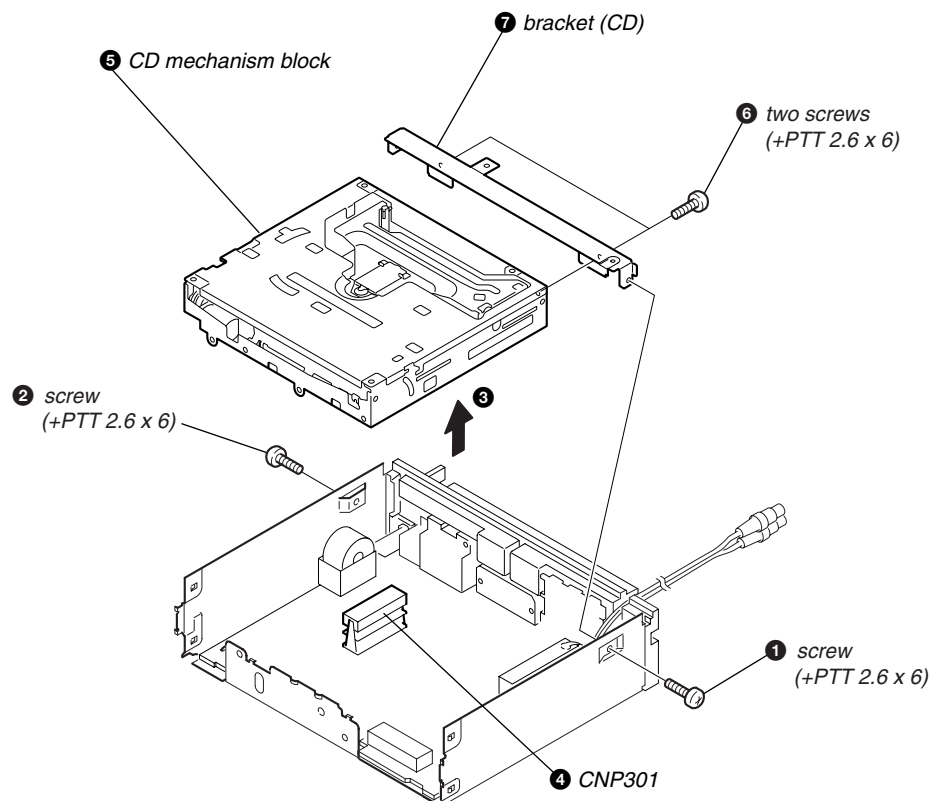


Note : Follow the disassembly procedure in the numerical order given.

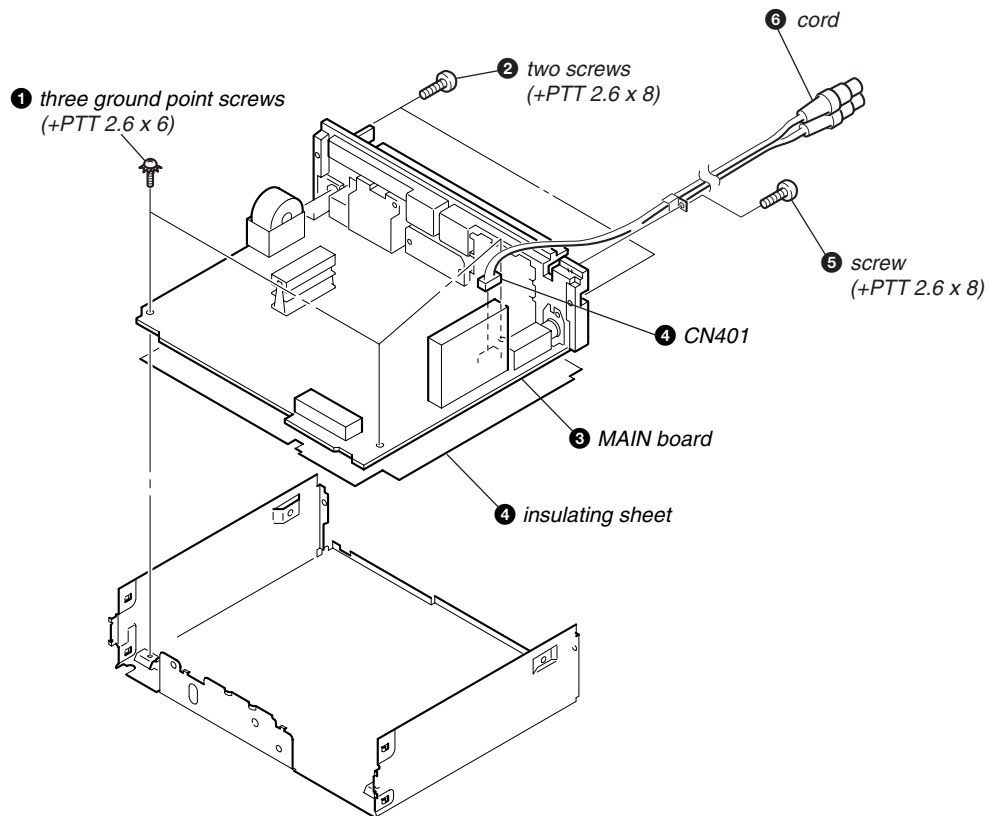
2-1. SUB PANEL ASSY (CD)



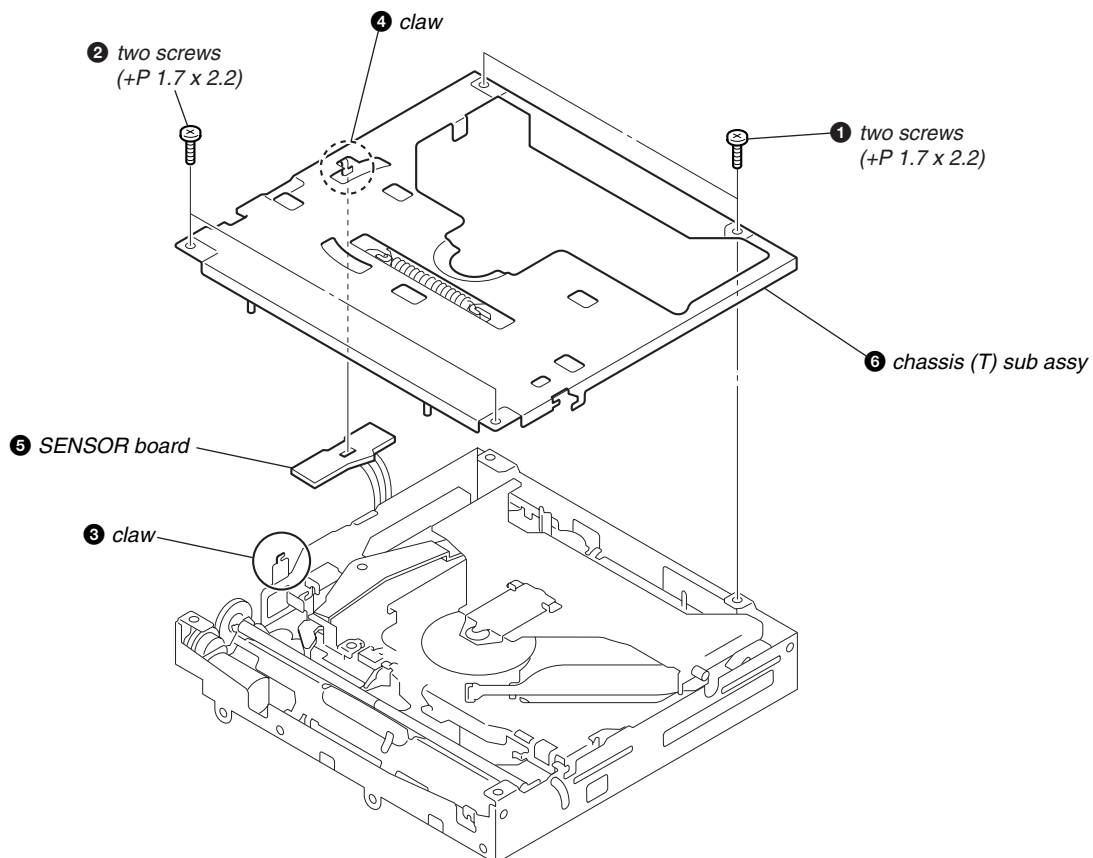
2-2. CD MECHANISM BLOCK



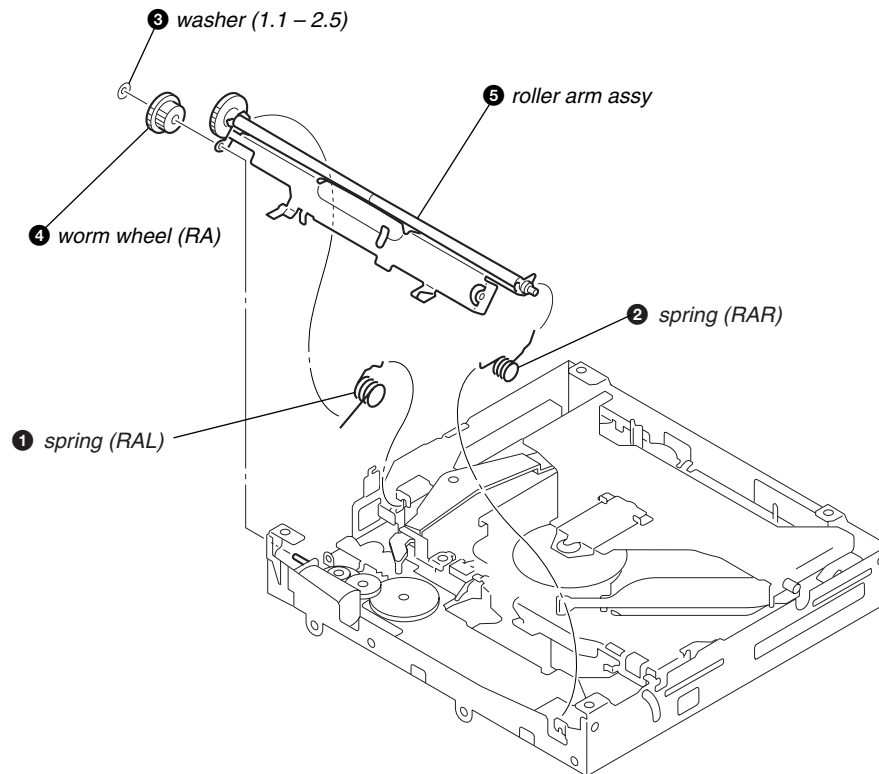
2-3. MAIN BOARD



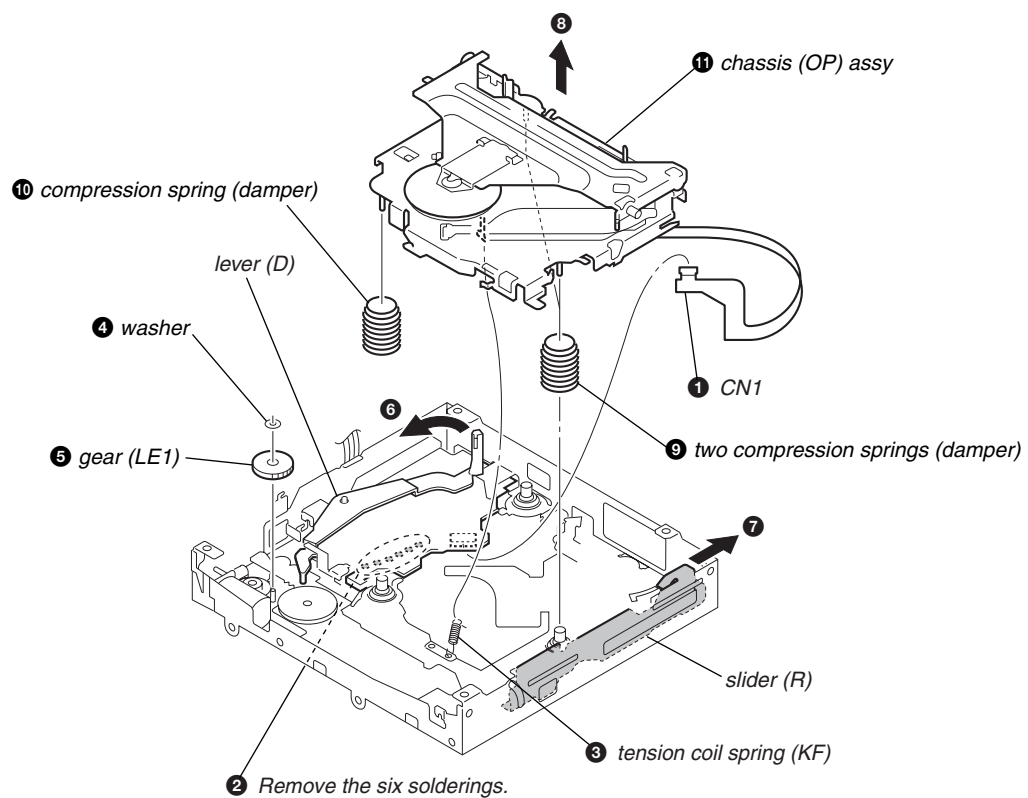
2-4. CHASSIS (T) SUB ASSY



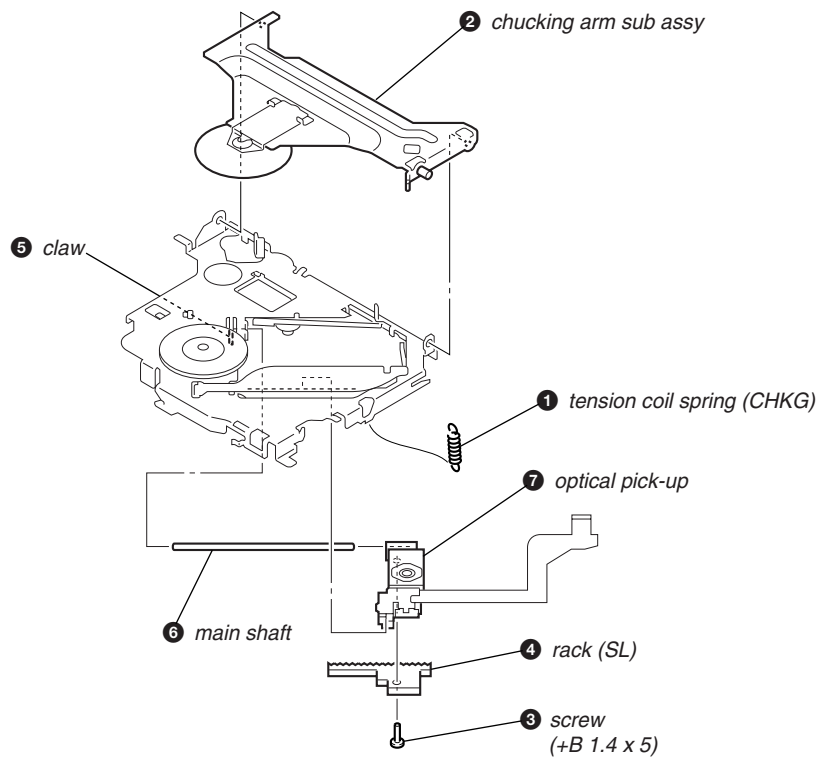
2-5. ROLLER ARM ASSY



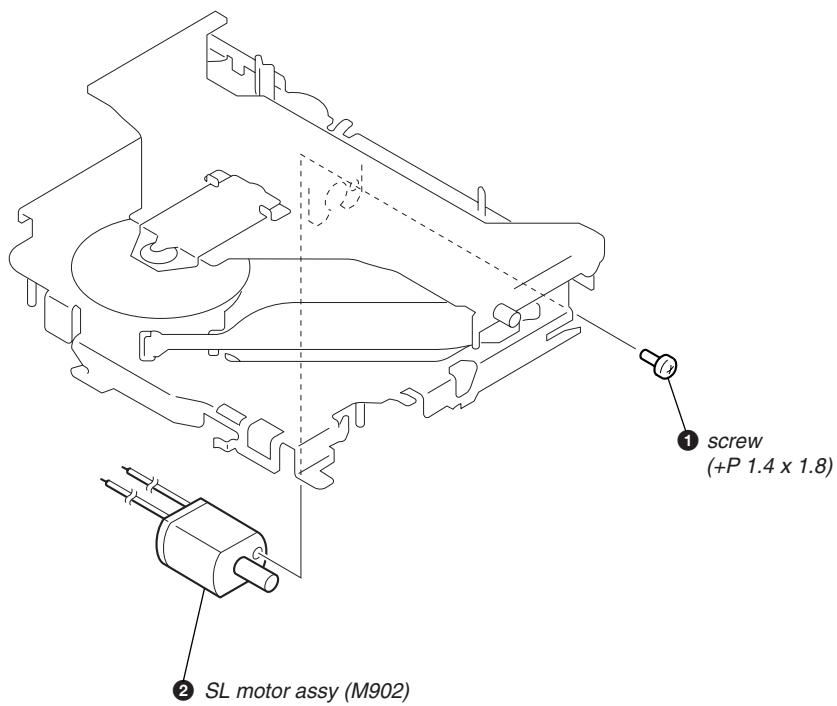
2-6. CHASSIS (OP) ASSY



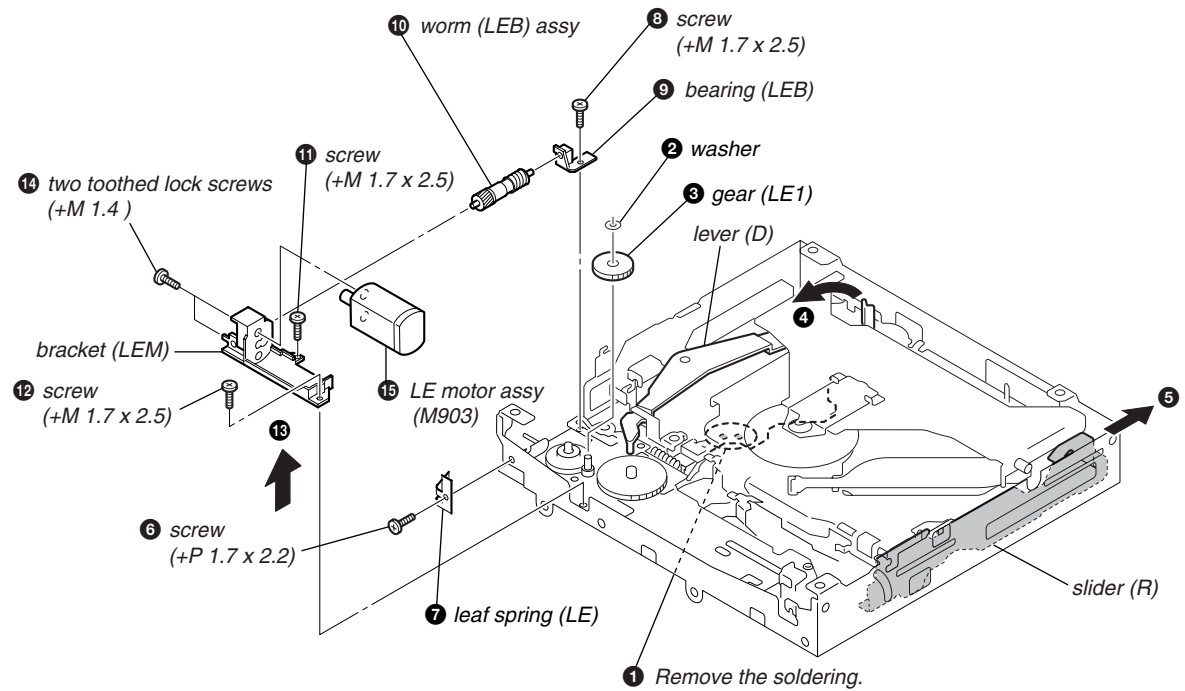
2-7. OPTICAL PICK-UP



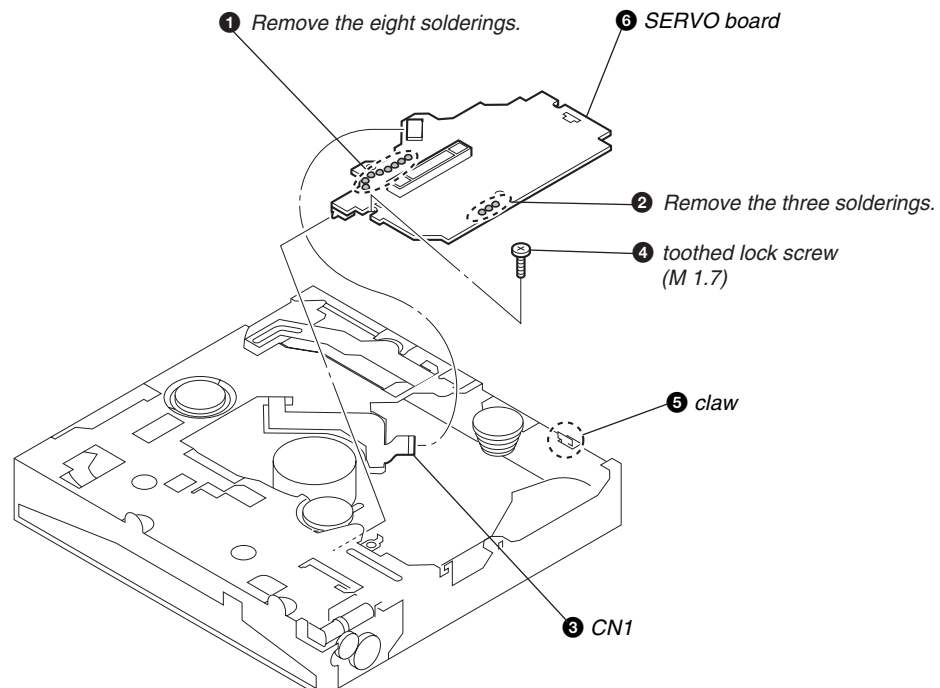
2-8. SL MOTOR ASSY (M902)



2-9. LE MOTOR ASSY (M903)



2-10. SERVO BOARD



SECTION 3 DIAGRAMS

3-1. IC PIN DESCRIPTIONS

• IC3 CXD3059BR (DIGITAL SERVO/DIGITAL SIGNAL PROCESSOR) (SERVO BOARD (1/2))

Pin No.	Pin Name	I/O	Pin Description
1	MIRR	I/O	Mirror signal input/output
2	DFCT	I/O	Defect signal input/output
3	FOK	I/O	Focus OK signal input/output
4	VSS	—	Ground pin
5	LOCK	I/O	Not used in this set. (Open)
6	MDP	O	Spindle motor servo control signal output
7	SSTP	I	Disc most inner detection signal input
8	IOVSS1	—	Digital ground pin for I/O
9	SFDR	O	Sled drive signal output
10	SRDR	O	Sled drive signal output
11	TFDR	O	Tracking drive signal output
12	TRDR	O	Tracking drive signal output
13	FFDR	O	Focus drive signal output
14	FRDR	O	Focus drive signal output
15	IOVDD1	—	Digital power supply pin for I/O
16	AVDD0	—	Analog power supply pin for I/O
17	AVSS0	—	Analog ground pin
18	NC	—	Not used. (Open)
19	E	I	E signal input
20	F	I	F signal input
21	TEI	I	Tracking error signal input from the DSSP block
22	TEO	O	Tracking error signal output to the RF amp block
23	FEI	I	Focus error signal input from the DSSP block
24	FEO	O	Focus error signal output from the RF amp block
25	VC	I/O	VC voltage output to the RF amp block Center voltage input from the DSSP block by command select
26	A	I	A signal input
27	B	I	B signal input
28	C	I	C signal input
29	D	I	D signal input
30	NC	—	Not used. (Open)
31	AVDD4	—	Analog power supply pin
32	RFDCO	I/O	RFDC signal output RFDC signal input from the DSSP block by command select
33	PDSSENS	I	Reference voltage input for PD
34	AC SUM	O	RFAC summing amp signal output
35	EQ IN	I	Equalizer circuit signal input
36	LD	O	APC amp signal output
37	PD	I	APC amp signal input
38	NC	—	Not used. (Open)
39	RFC	I	EQ cut off frequency adjustment input
40	AVSS4	—	Analog ground pin
41	RFACO	O	RFAC signal output
42	RFACI	I	RFAC signal input or EFM signal input
43	AVDD3	—	Analog power supply pin
44	BIAS	I	Asymmetry circuit constant current input
45	ASYI	I	Asymmetry compare voltage input
46	ASYO	O	EFM full swing signal output
47	VPCO	O	Charge pump output for wideband EFM PLL
48	VCTL	I	VCO2 control voltage input for wideband EFM PLL
49	AVSS3	—	Analog ground pin

Pin No.	Pin Name	I/O	Pin Description
50	CLTV	I	VCO1 control voltage input
51	FILO	O	Filter signal output for master PLL
52	FILI	I	Filter signal input for master PLL
53	PCO	O	Charge pump output for master PLL
54	AVDD5	—	Analog power supply pin
55	DDVROUT	O	DC/DC converter output
56	DDVRSEN	I	DC/DC converter output voltage monitor signal input
57	AVSS5	—	Analog ground pin
58	DDCR	I	Reset signal input for DC/DC converter
59	NC	—	Not used. (Open)
60	BCKI	I	D/A interface bit clock signal input
61	PCMDI	I	D/A interface serial data signal input
62	LRCKI	I	D/A interface LR clock signal input
63	LRCK	O	D/A interface LR clock signal output
64	VSS	—	Digital ground pin for internal
65	PCMD	O	D/A interface serial data signal output
66	BCK	O	D/A interface bit clock signal output
67	VDD	—	Digital power supply pin for internal
68	EMPH	O	Not used in this set. (Open)
69	EMPHI	I	Not used in this set. (Fixed at “L”.)
70	IOVDD2	—	Digital power supply pin for I/O
71	DOUT	O	Digital out signal output
72, 73	TEST	I	Test pin Normally “L”.
74	IOVSS2	—	Digital ground pin for I/O
75	NC	—	Not used in this set. (Open)
76	XVSS	—	Ground pin for master clock
77	XTAO	O	Crystal oscillation circuit output (16.9344 MHz)
78	XTAI	I	Crystal oscillation circuit input (16.9344 MHz)
79	XVDD	—	Power supply pin for master clock
80	AVDD1	—	Analog power supply pin
81	AOUT1	O	L channel analog signal output
82	VREFL	O	L channel reference voltage output
83	AVSS1	—	Analog ground pin
84	AVSS2	—	Analog ground pin
85	VREFR	O	R channel reference voltage output
86	AOUT2	O	R channel analog signal output
87	AVDD2	—	Analog power supply pin
88	NC	—	Not used. (Open)
89	IOVDD0	—	Digital power supply pin for I/O
90	RMUT	O	R channel “O” detection flug output
91	LMUT	O	L channel “O” detection flug output
92	NC	—	Not used. (Open)
93	XTSL	I	X’tal select signal input 16.9344 MHz: “L”, 33.8688 MHz: “H”
94	IOVSS0	—	Digital ground pin for I/O
95	XTACN	I	Oscillation circuit control input “H”: Oscillation start, “L”: Oscillation stop
96	SQSO	O	Sub 80 bit and PCM peak, level data signal output CD text data signal output
97	SQCK	I	Clock signal input for SQSO read out
98	SBSO	O	Sub P-W serial data signal output Not used in this set. (Open)
99	EXCK	I	Clock signal input for SBSO read out Not used in this set. (Open)
100	XRST	I	System reset signal input “L”: reset
101	SYSM	I	Mute signal input “H”: mute Not used in this set. (Fixed at “L”.)
102	DATA	I	Serial data signal input
103	VSS	—	Digital ground pin for internal

Pin No.	Pin Name	I/O	Pin Description
104	XLAT	I	Latch signal input
105	CLOCK	I	Serial data transfer clock signal input
106	VDD	—	Digital power supply pin for internal
107	SENS	O	SENS signal output
108	SCLK	I	Clock signal input for SENS serial data read out
109	ATSK	I/O	Input/output for anti-shock
110	WFCK	O	WFCK signal output Not used in this set. (Open)
111	XUGF	O	XUGF signal output Not used in this set. (Open)
112	XPCK	O	XPCK signal output Not used in this set. (Open)
113	GFS	O	GFS signal output
114	C2PO	O	C2PO signal output
115	SCOR	O	Sub cord sync signal output
116	VDD	—	Digital power supply pin for internal
117	C4M	O	4.2336 MHz signal output Not used in this set. (Open)
118	WDCK	O	Word clock signal output Not used in this set. (Open)
119	COUT	I/O	Track count signal input/output Not used in this set. (Open)
120	NC	—	Not used. (Open)

• IC303 M30624MGP-123GP (SYSTEM CONTROL) (MAIN BOARD (3/3))

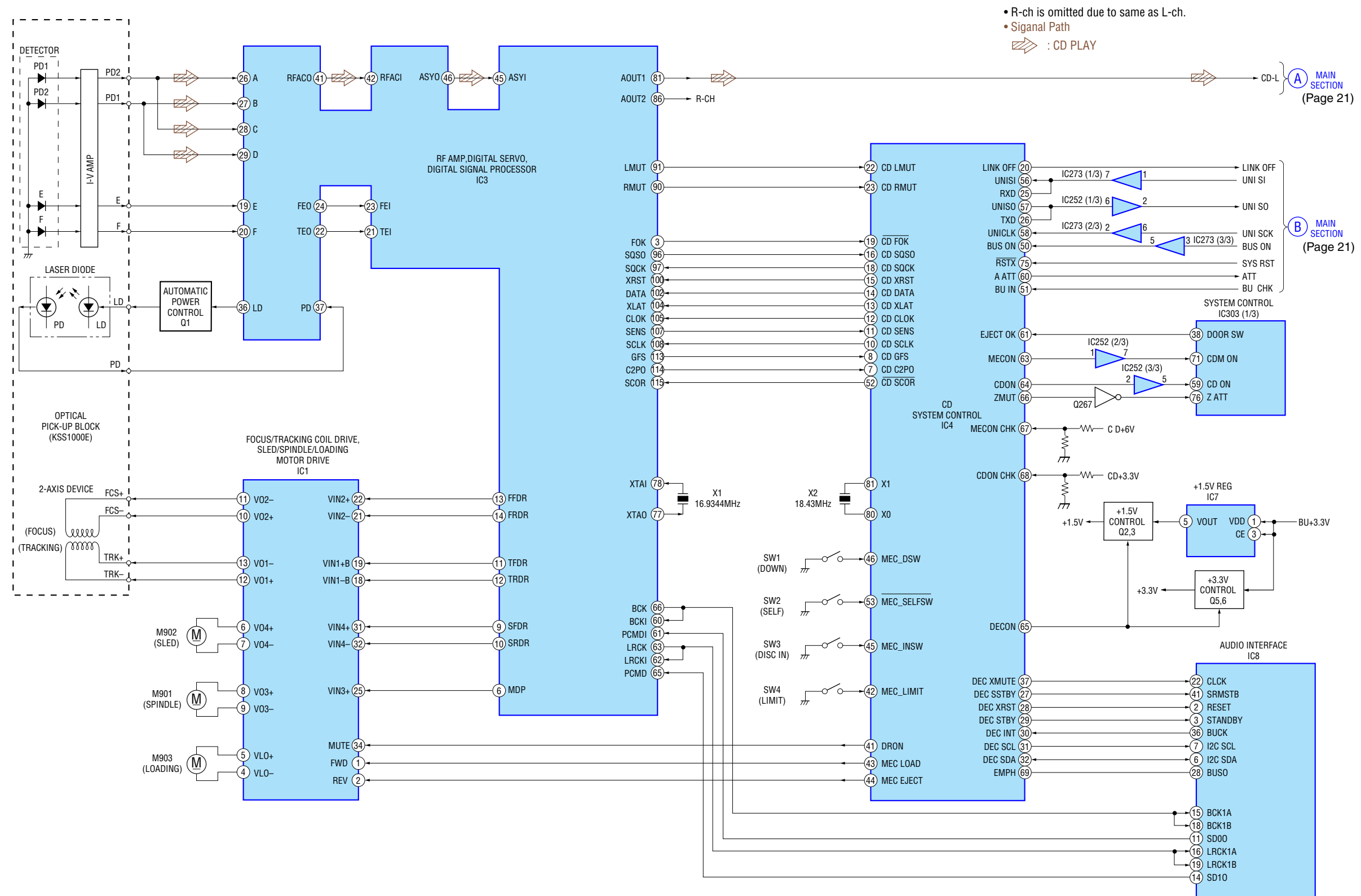
Pin No.	Pin Name	I/O	Pin Description
1	SIRCS	I	Remocon data input
2	(NCO)	O	Not used
3	CD SO/TSO	O	CD servo serial data output
4	CD SI/TSI	I	CD servo serial data input
5	CD CKO/TCKO	O	CD servo serial clock output
6	BYTE	I	Connecting to ground.
7	CNVSS	I	Flash write-in signal input
8	XCIN	I	Sub clock signal input (32.768kHz)
9	XCOUT	O	Sub clock signal output (32.768kHz)
10	RESET	I	CPU reset input
11	XOUT	O	Main clock signal output (6MHz)
12	VSS	—	Ground
13	XIN	I	Main clock signal input (6MHz)
14	VCC1	—	Ground
15	NMI	I	Non maskable interrupt signal input
16	CD INTQ	I	CD-TEXT sync. signal input
17	DAVN	I	RDS data block sync. detection signal input
18	BU IN	I	Back-up power detection signal input
19	NS MASK	O	NS-MASK signal output
20	BEEP	O	Beep signal output
21	FSW IN	I	DD converter OSC frequency count input
22	FSW OUT	O	DD converter OSC frequency change output
23	SA CLK	O	Spectrum analyzer clock output
24	TEL ATT	I	Telephone mute signal input
25	ATT	O	Mute signal output
26	VOL ATT	O	Electronic volume mute signal output
27	I2C CKO	O	I2C bus serial clock output
28	I2C SIO	O	I2C bus serial data output
29	UNI SO	O	SONY bus serial data output
30	UNI SI	I	SONY bus serial data input
31	UNI CKO	O	SONY bus serial clock output
32	TUNER ATT	O	Tuner mute signal output
33	EE SIO	I/O	Tuner pack EEPROM serial data input/output
34	EE CKO	O	Tuner pack EEPROM serial clock output
35	RE IN0	I	Rotary encoder signal input 0
36	RE IN1	I	Rotary encoder signal input 1
37	NOSE SW	I	Front panel detection signal input
38	DOOR SW	I	Panel open detection signal input
39	HOLD	I	External bus data input (HOLD)
40	AMP DIAG	I	AMP self-diagnosis function control signal input
41	AMP STB	O	AMP standby signal output
42	(NCO)	O	Not used
43	(NCO)	O	Not used
44	WRI/WR	I	External bus data input (WRI/WR)
45	CD LIMIT	I	CD LIMIT switch detection signal input
46	CD D SW	I	CD D switch detection signal input
47	CD IN SW	I	CD IN switch detection signal input
48	4V SEL	I	4V PRE-OUT select signal input
49	MP3 SEL	I	Deck mechanism select signal input
50	DST SEL1	I	Destination select setting pin 1
51	DST SEL2	I	Destination select setting pin 2
52	CD LM LOAD	O	CD loading signal output

Pin No.	Pin Name	I/O	Pin Description
53	CD LM EJECT	O	CD eject signal output
54	CD RESET	O	CD reset signal output
55	CD AO	O	CD AO signal output
56	CD STB	O	CD strobe signal output
57	(NCO)	O	Not used
58	CD RF OK	I	CD RF OK signal input
59	CD ON	I	CD ON signal input
60	VCC2	—	Power supply pin (+5V)
61	DISP RESET	O	Display CPU reset signal output
62	VSS	—	Ground
63	TEST IN	I	Test mode signal input
64	BUS ON	O	BUS ON signal output
65	SYS RST	O	System reset signal output
66	BUS/AUX	O	BUS AUDIO/AUX-IN select signal output
67	(NCO)	O	Not used
68	ACC IN	I	ACC power supply check signal input
69	ILL IN	I	ILL check signal input
70	RC IN1	I	Rotary commander signal input
71	CDM ON	I	CD power supply ON signal input
72	CD SELF SW	I	CD SELF switch detection signal input
73	TU ATT IN	I	Tuner attenuator zero cross signal input
74	ZERO DET1	I	ZERO detection signal input 1
75	ZERO DET2	I	ZERO detection signal input 2
76	Z ATT	I	Z mute signal input
77	(NCO)	O	Not used
78	(NCO)	O	Not used
79	ROMC EN	O	Connecting to ground.
80	QUALITY	I	Tuner noise detection signal input
81	MPTH	O	Not used
82	VSM	I	S-meter signal input
83	SA IN	I	Spectrum analyzer data input
84	KEY IN1	I	Key signal input
85	KEY IN0	I	Key signal input
86	RC IN0	I	Rotary commander signal input
87	KEY ACK2	I	Rotary commander ACK signal input
88	KEY ACK0	I	Key ACK signal input
89	KEY ACK1	I	Key ACK signal input
90	DOORING	O	Sub panel LED power supply control signal output
91	RAM BU	I	RAM back-up input
92	FLD ON	O	FL driver power supply control signal output
93	FL ON	O	FL power supply control signal output
94	AVSS	—	Ground
95	DISP CE	O	Display CPU chip enable output
96	VREF	—	AD converter reference voltage (+5V)
97	AVCC	—	Power supply pin (+5V)
98	DISP SI/RX	I	Display CPU serial data input
99	DISP SO/TX	O	Display CPU serial data output
100	DISP CKO	O	Display CPU serial clock output

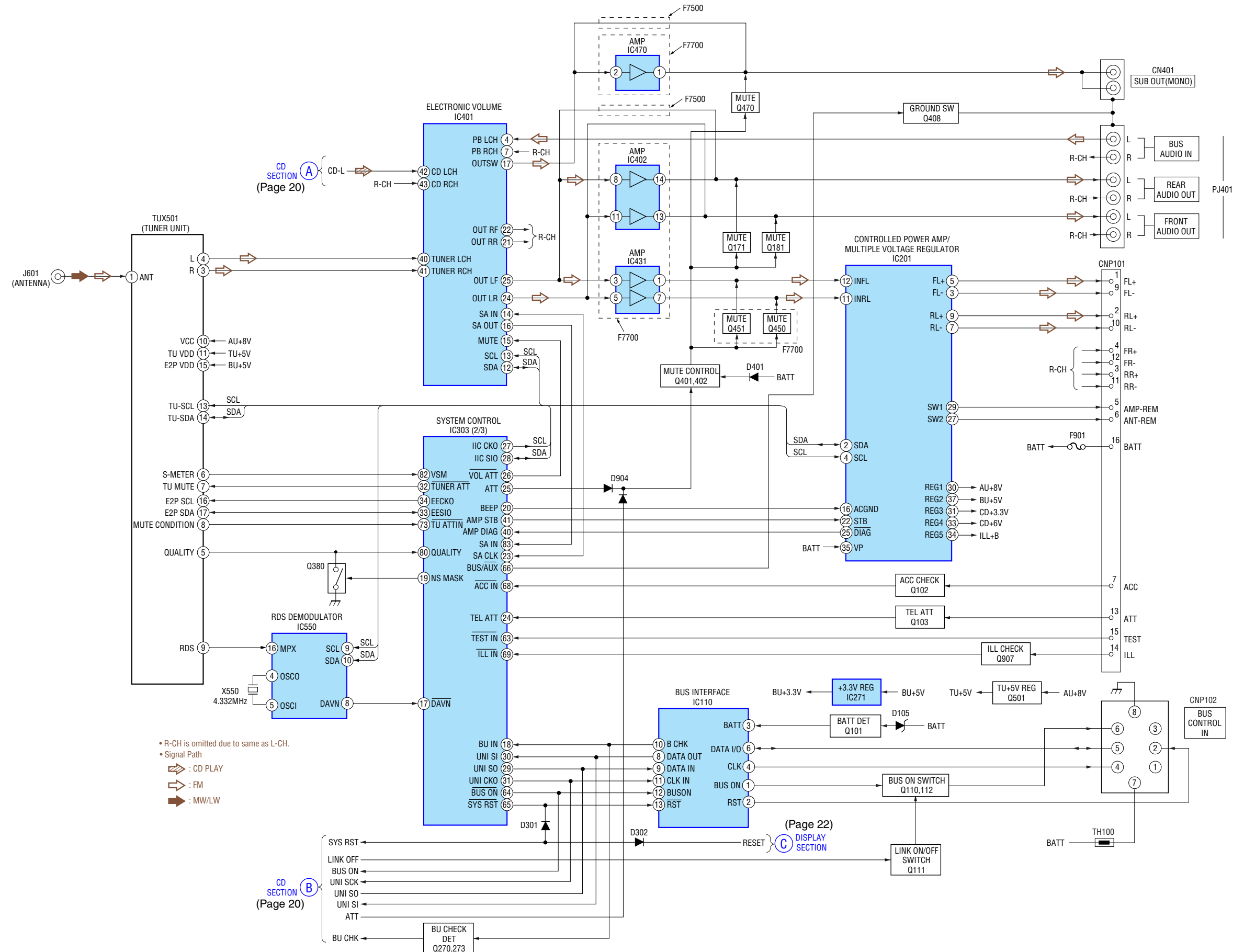
• IC901 M30823MH-080GP (DISPLAY CONTROL) (KEY BOARD)

Pin No.	Pin Name	I/O	Pin Description
1	SYS CE	I	Main chip enable input
2	(NCO)	O	Not used
3	FL DAT3	O	FL serial data output 3
4	(NCO)	O	Not used
5	FL CLK IN	I	FL serial clock input
6	BYTE	I	Connecting to ground.
7	CNVSS	I	Flash write-in signal input
8	PLL LPF	O	PLL low pass filter connection pin
9	PLL GND	I	Ground
10	RESET	I	CPU reset input
11	XOUT	O	Main clock signal output (8MHz)
12	VSS	—	Ground
13	XIN	I	Main clock signal input (8MHz)
14	VCC	—	Power supply pin (+5V)
15	NMI	I	Non maskable interrupt signal input
16	(NCO)	O	Not used
17	GCP IN	I	GCP pulse interrupt signal input
18, 19	(NCO)	O	Not used
20	GCP OUT	O	GCP pulse signal output
21	LAT	O	FL data LAT output
22	BK	O	FL BK signal output
23	GCP2	O	FL GCP signal output 2
24	(NCO)	O	Not used
25	GCP1	O	FL GCP signal output 1
26	(NCO)	O	Not used
27	GCP4	O	FL GCP signal output 4
28	GCP3	O	FL GCP signal output 3
29	SYS SO	O	Main bus serial data output
30	SYS SI	I	Main bus serial data input
31	SYS CLK	O	Main bus serial clock output
32	(NCO)	O	Not used
33	FL DAT1	O	FL serial data output 1
34	(NCO)	O	Not used
35	FL CLK	O	FL serial clock output
36 to 38	(NCO)	O	Not used
39	HOLD	I	External bus data input (HOLD)
40 to 43	(NCO)	O	Not used
44	WRI/WR	I	External bus data input (WRI/WR)
45 to 59	(NCO)	O	Not used
60	VCC	—	Power supply pin (+5V)
61	(NCO)	O	Not used
62	VSS	—	Ground
63 to 93	(NCO)	O	Not used
94	AVSS	—	Ground
95	(NCO)	O	Not used
96	VREF	—	Reference voltage (+5V)
97	AVCC	—	Power supply pin (+5V)
98	(NCO)	—	Not used
99	FL DAT2	O	FL serial data output 2
100	FL CLK IN	I	FL serial clock input

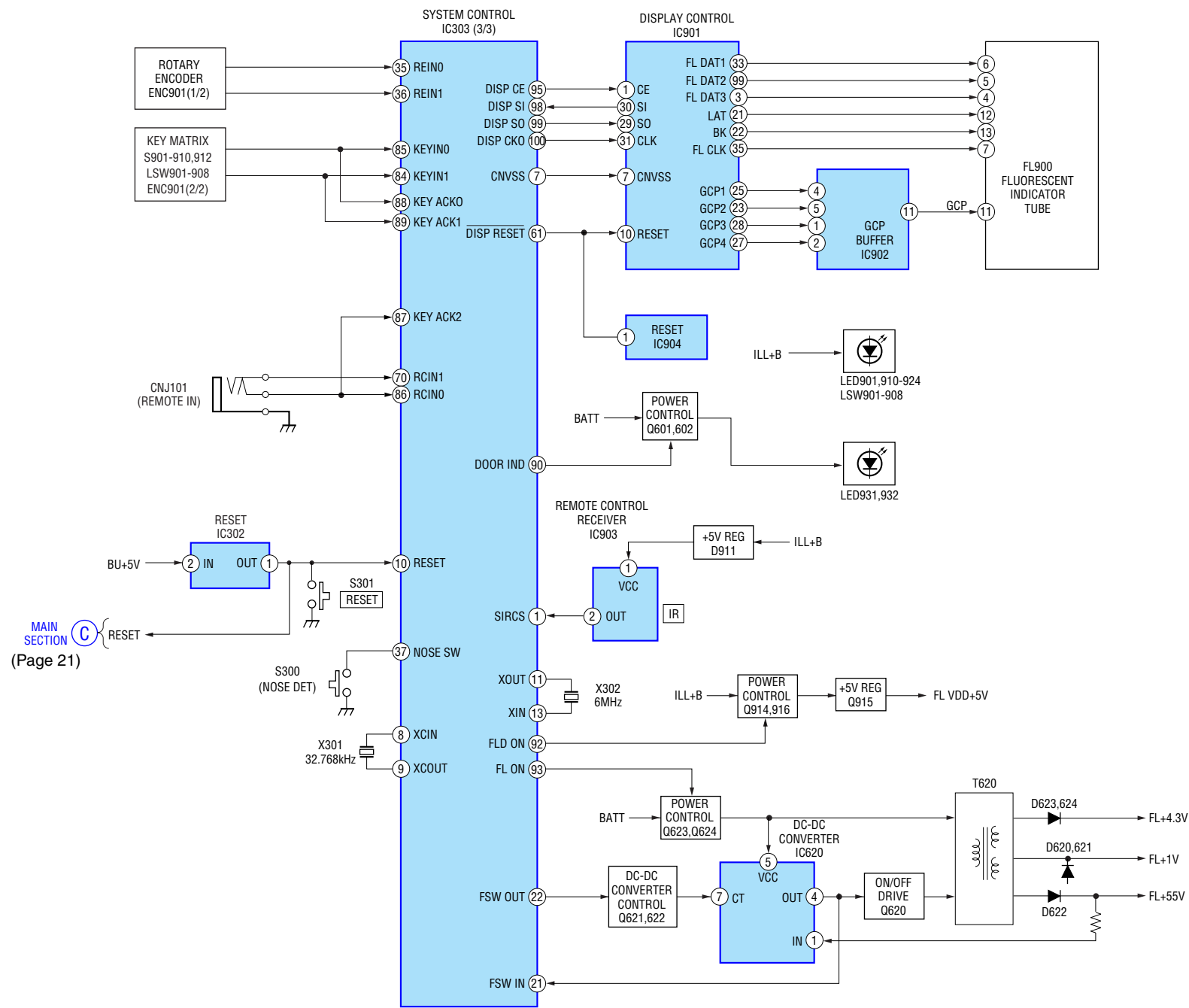
3-2. BLOCK DIAGRAM — CD SECTION —



3-3. BLOCK DIAGRAM — MAIN SECTION —



3-4. BLOCK DIAGRAM — DISPLAY SECTION —



3-5. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.
Note:

- All capacitors are in μF unless otherwise noted. pF: μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- \triangle : internal component.
- \square : panel designation.

Note: The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

For printed wiring boards.
Note:

- \circ : parts extracted from the component side.
- \square : parts extracted from the conductor side.
- \circ : Through hole.
- \blacksquare : Pattern from the side which enables seeing. (The other layers' patterns are not indicated.)

Caution:
Pattern face side: Parts on the pattern face side seen from the (Side B) pattern face are indicated.
Parts face side: Parts on the parts face side seen from the (Side A) parts face are indicated.

• --- : B+ Line.

• --- : B- Line.

• \square : adjustment for repair.

• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.

• CD mechanism section
no mark : CD PLAY

• Main (1/3), (2/3), (3/3) and Key sections
no mark : FM
() : AM
< > : CD PLAY
* : Impossible to measure

• Voltages are taken with a VOM (Input impedance 10 M Ω).
Voltage variations may be noted due to normal production tolerances.

• Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.

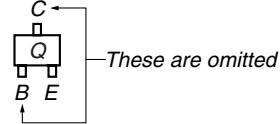
• Circled numbers refer to waveforms.

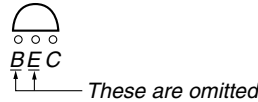
• Signal path.

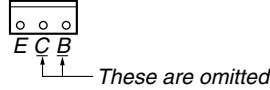
\Rightarrow : CD PLAY

\Rightarrow : FM

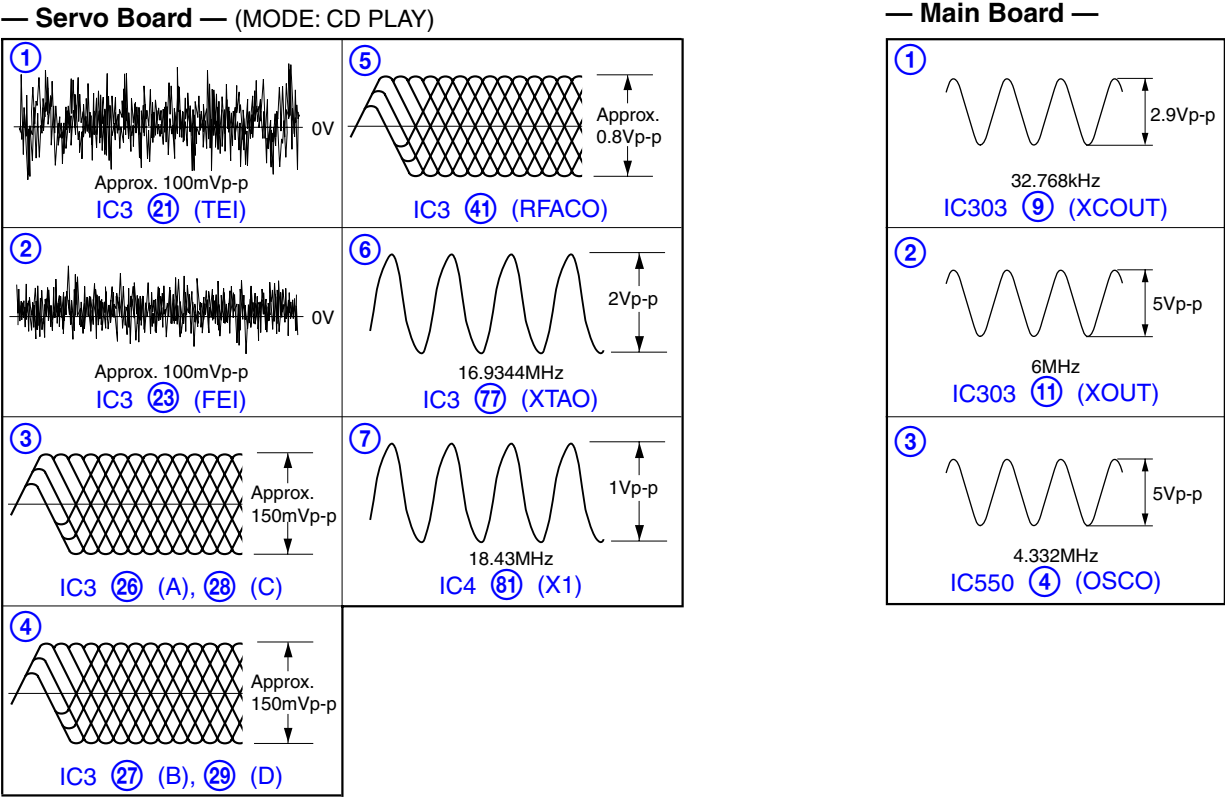
\Rightarrow : MW/LW



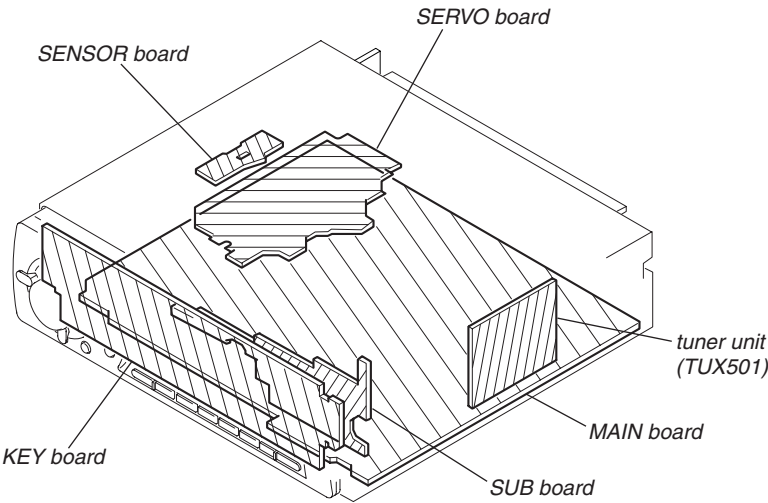




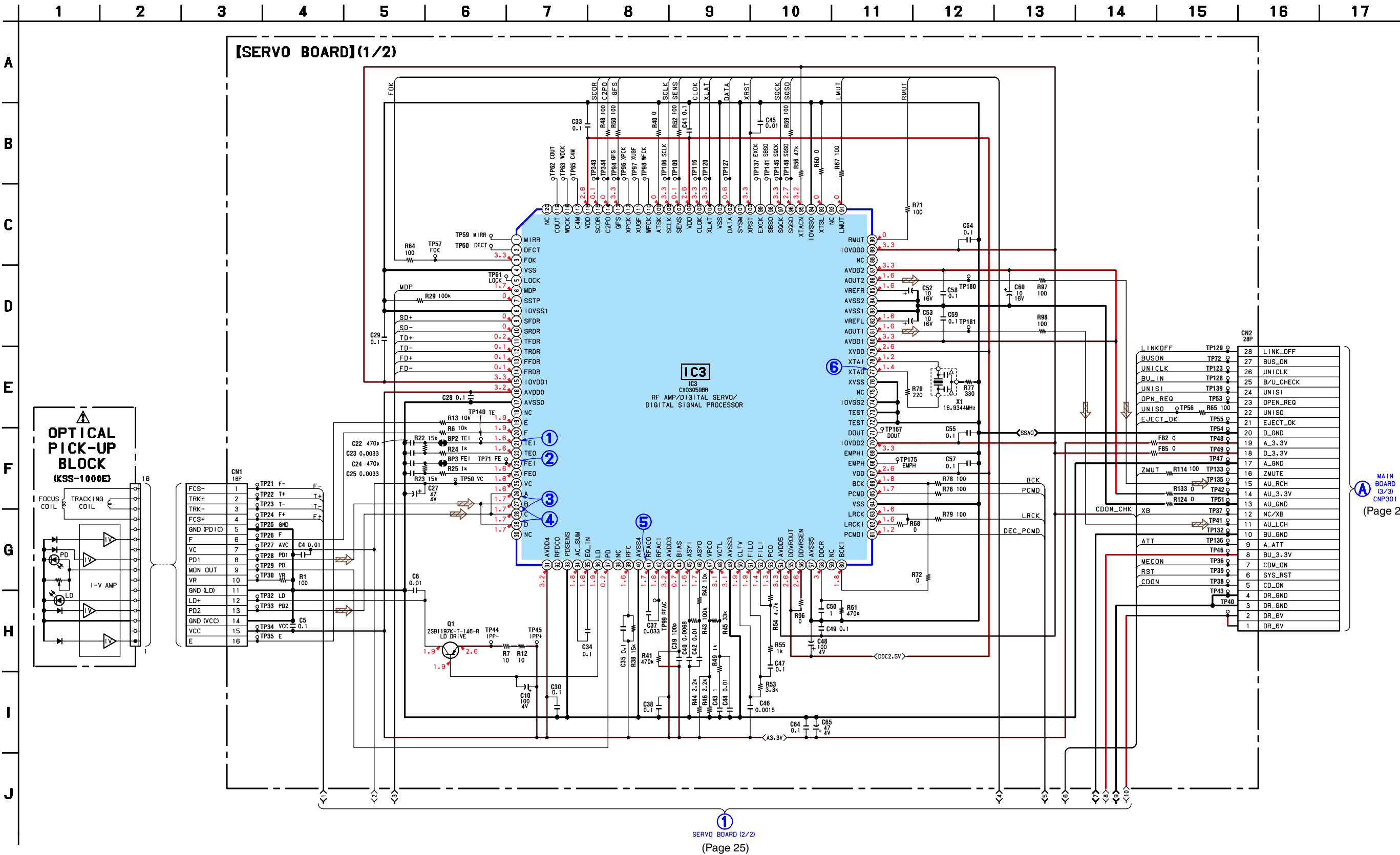
3-6. WAVEFORMS



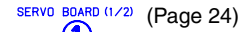
3-7. CIRCUIT BOARDS LOCATION



3-8. SCHEMATIC DIAGRAM — CD MECHANISM SECTION (1/2) — • Refer to page 23 for Waveforms.

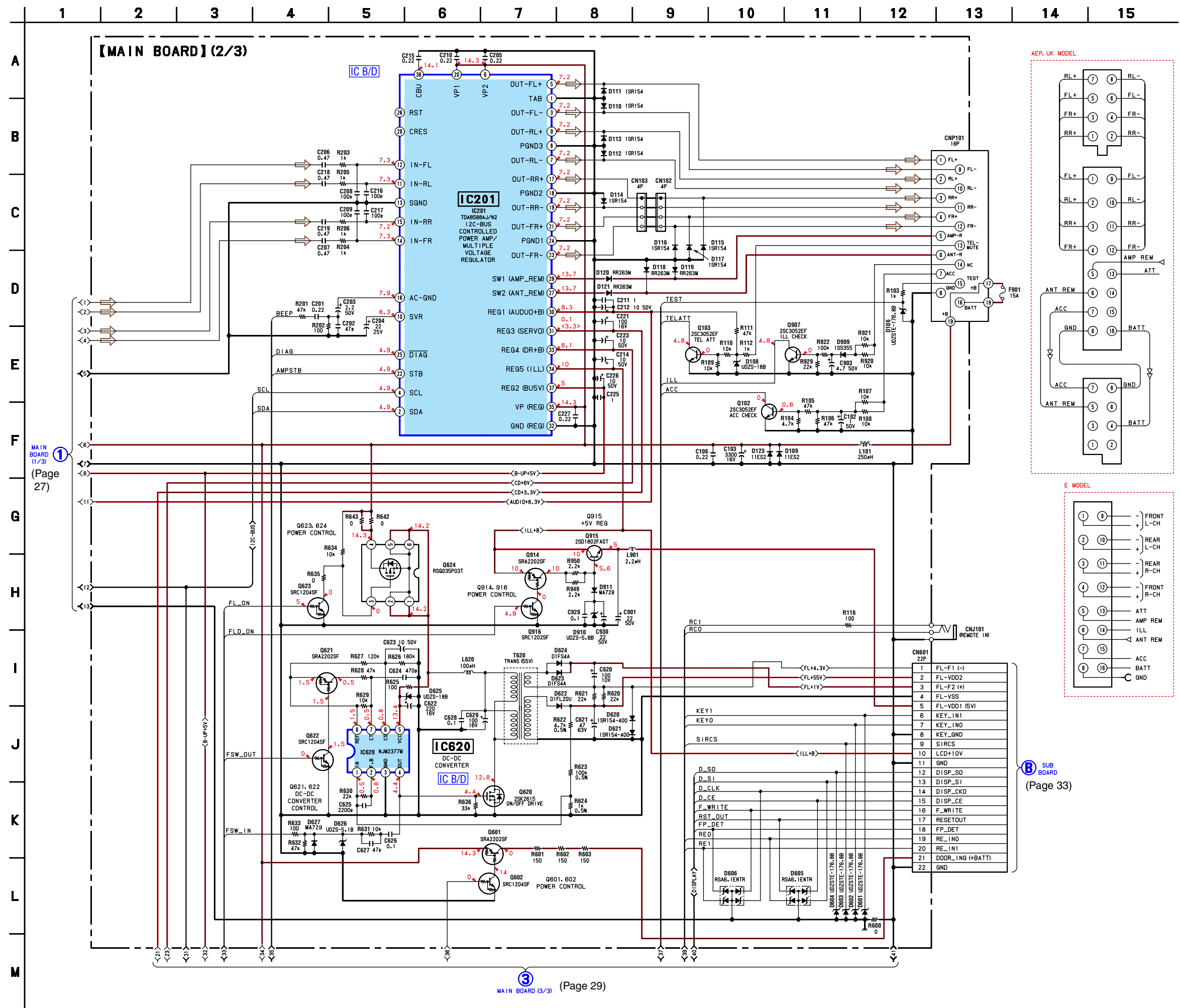


	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
--	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----



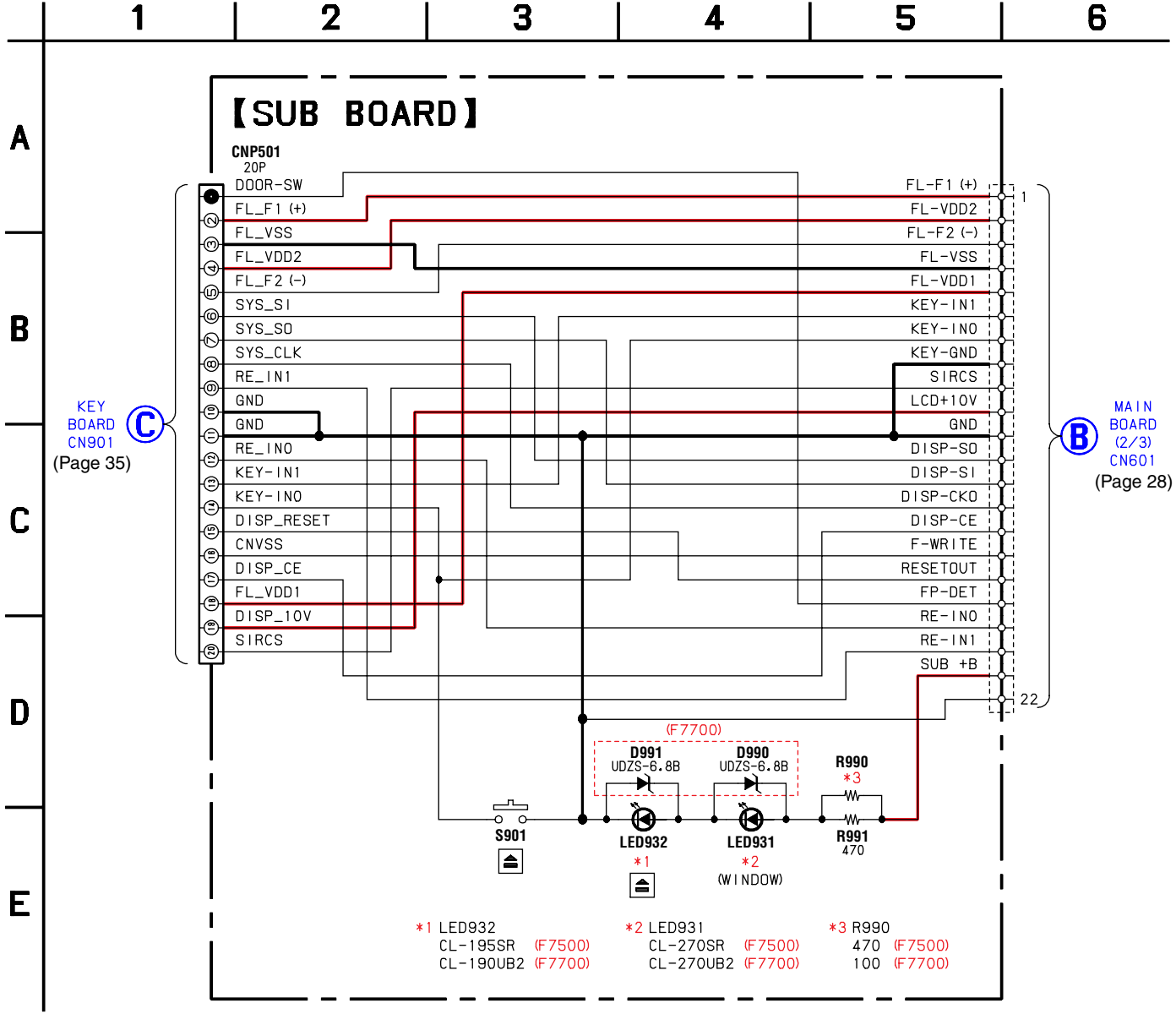


3-12. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) — • Refer to page 36 for IC Block Diagram.

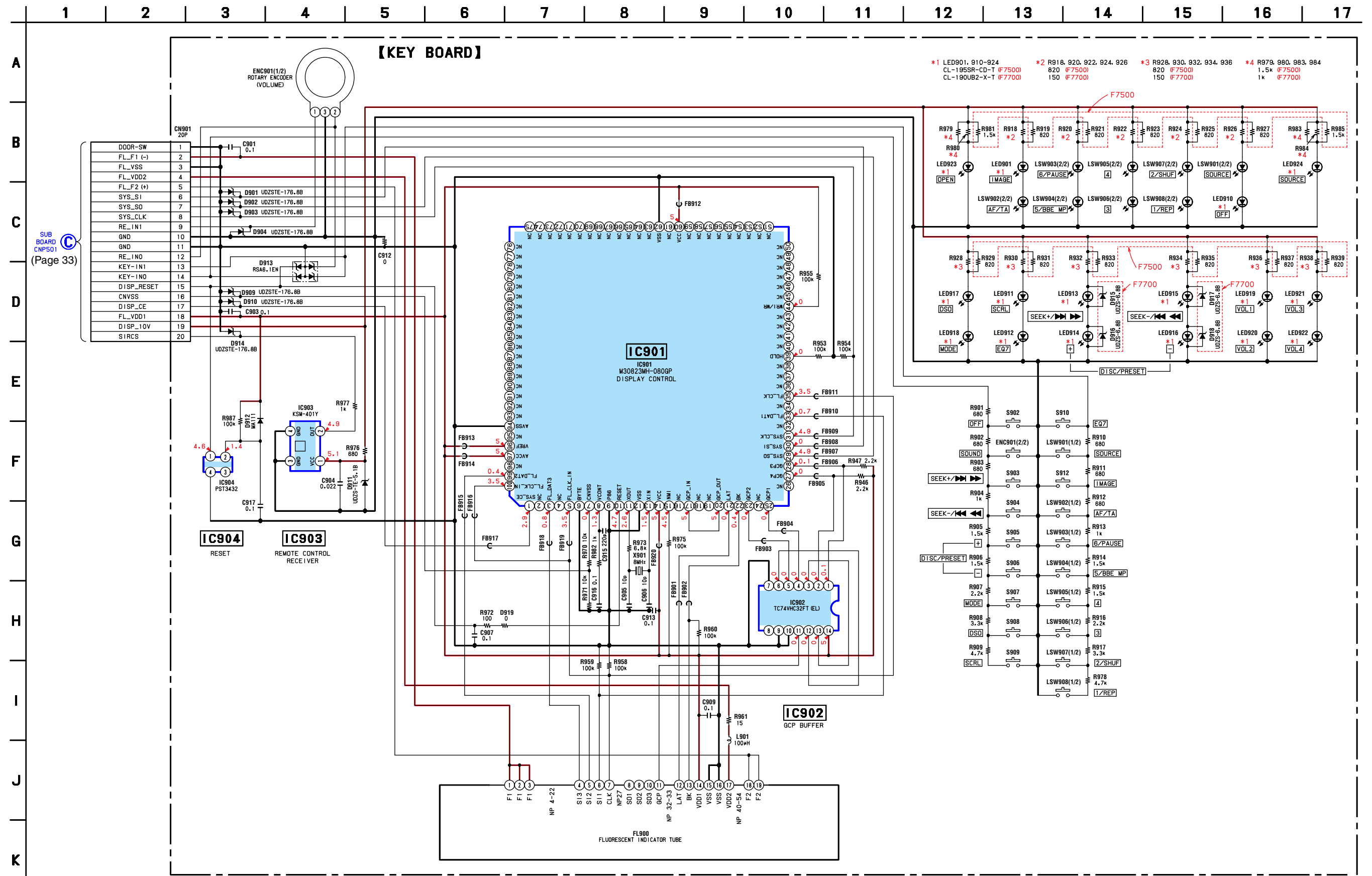




3-16. SCHEMATIC DIAGRAM — SUB SECTION —

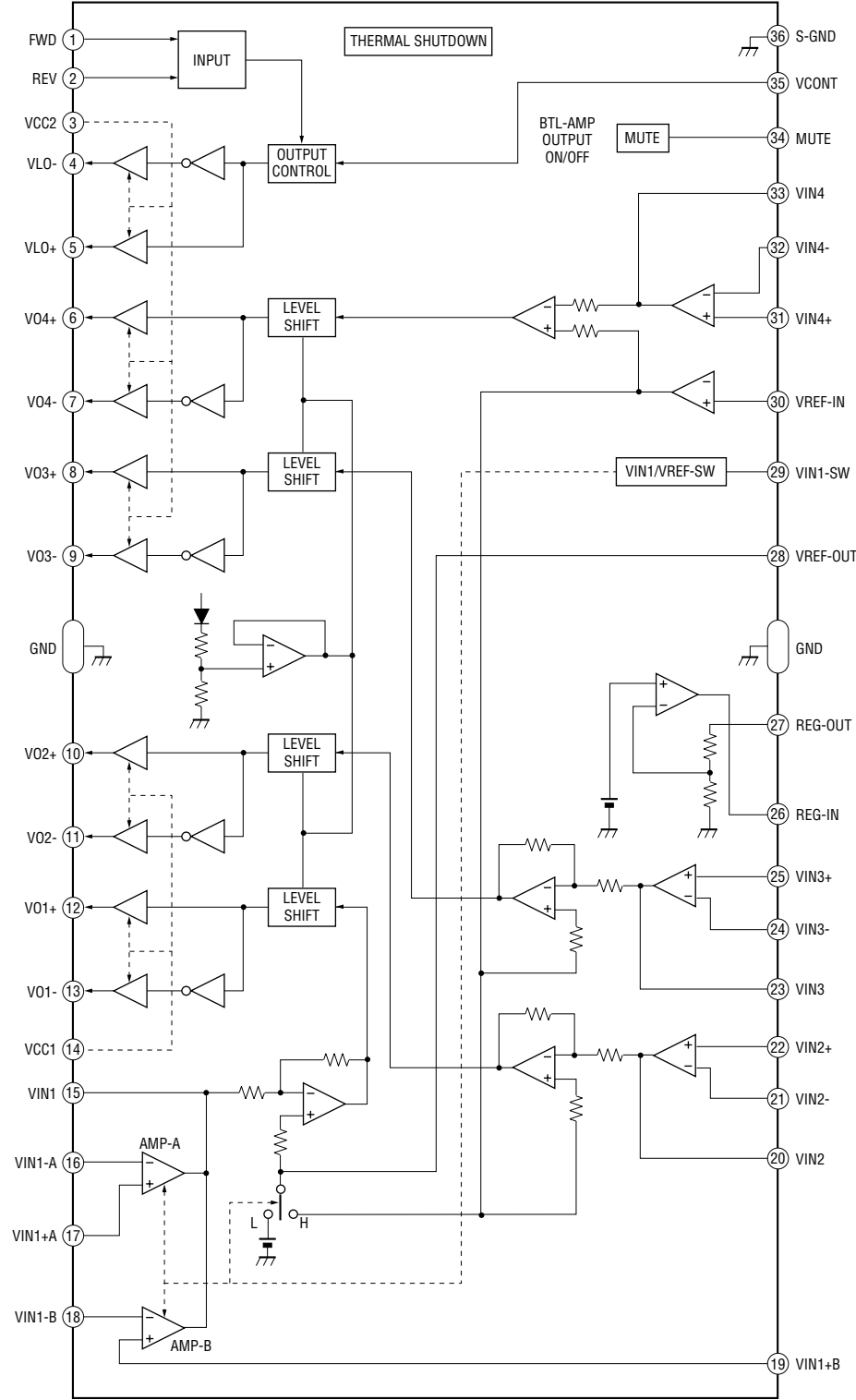


3-18. SCHEMATIC DIAGRAM — KEY SECTION —

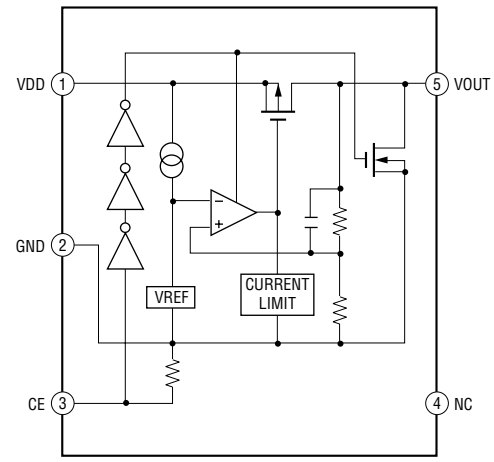


3-19. IC BLOCK DIAGRAMS

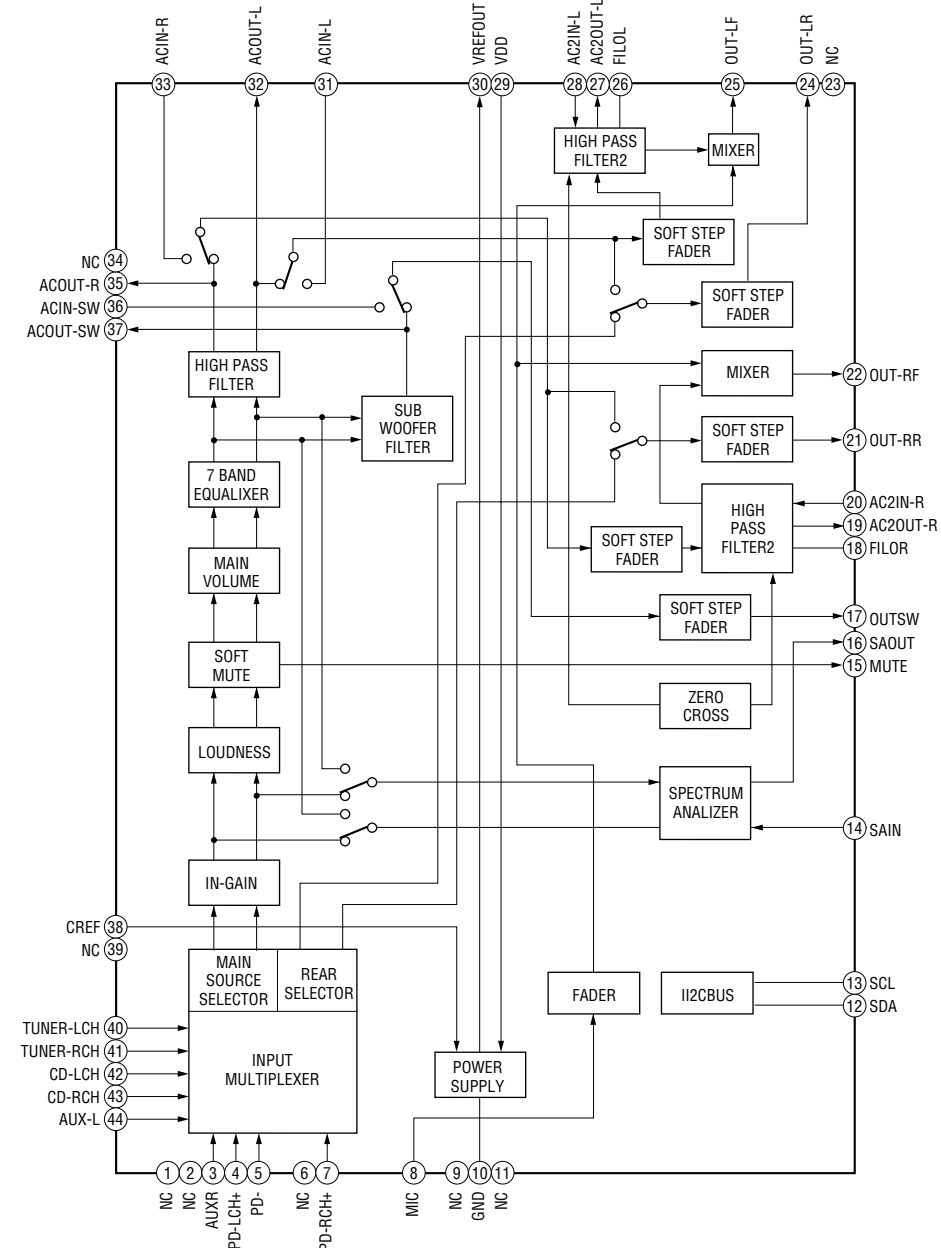
IC1 LA6560-TE-L-E (SERVO Board (2/2))



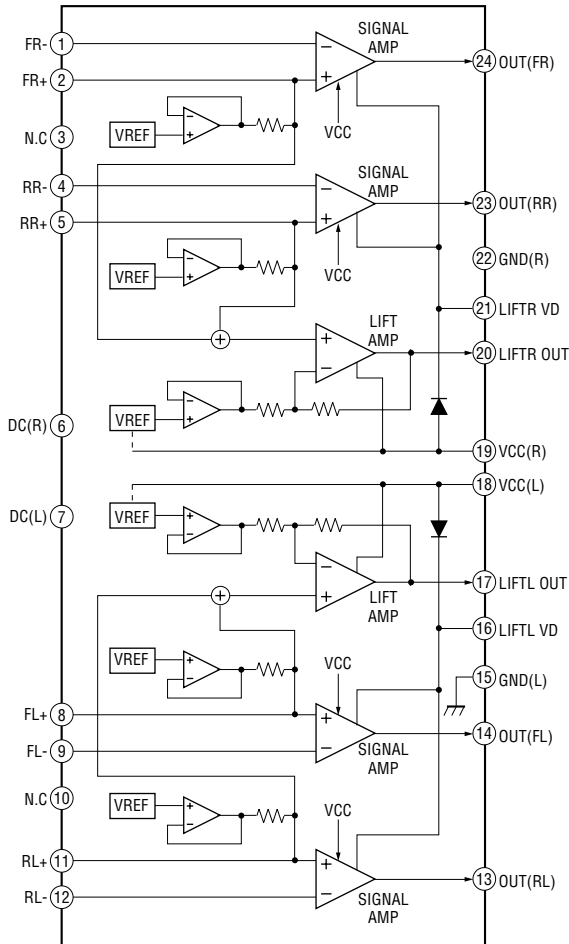
IC7 R1114N151D-TR-FA (SERVO Board (2/2))



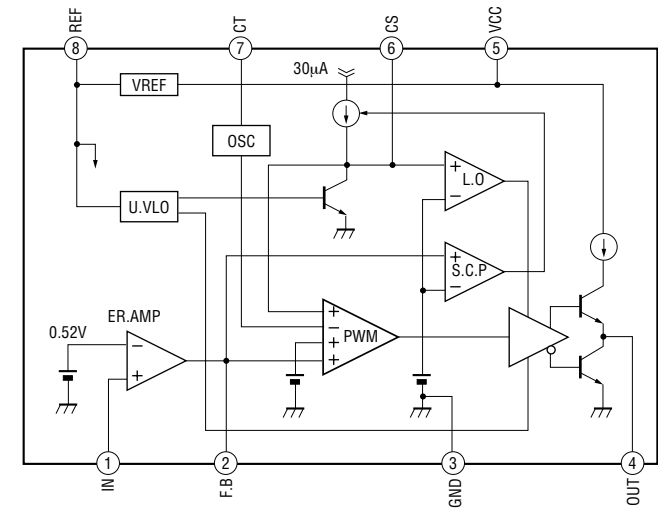
IC401 TDA7416 (MAIN Board (1/3))



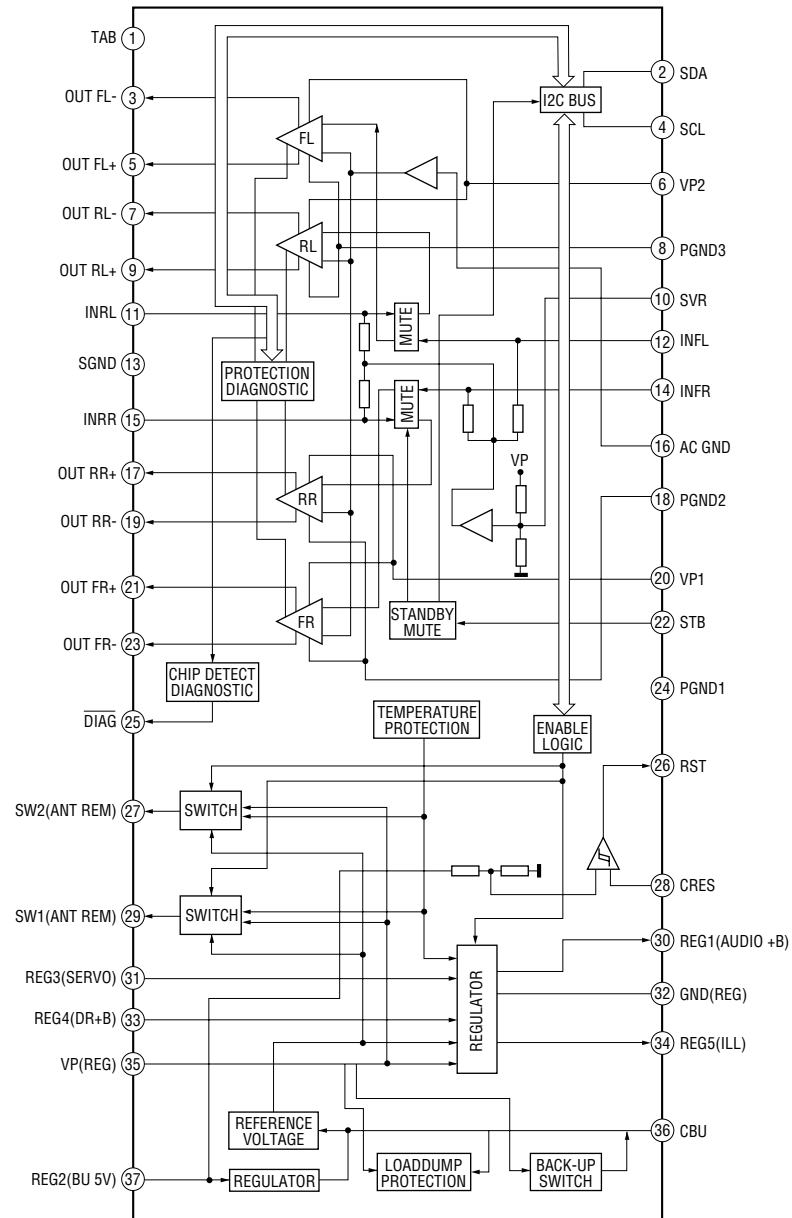
IC402 LA2901V-TL (MAIN Board (1/3))



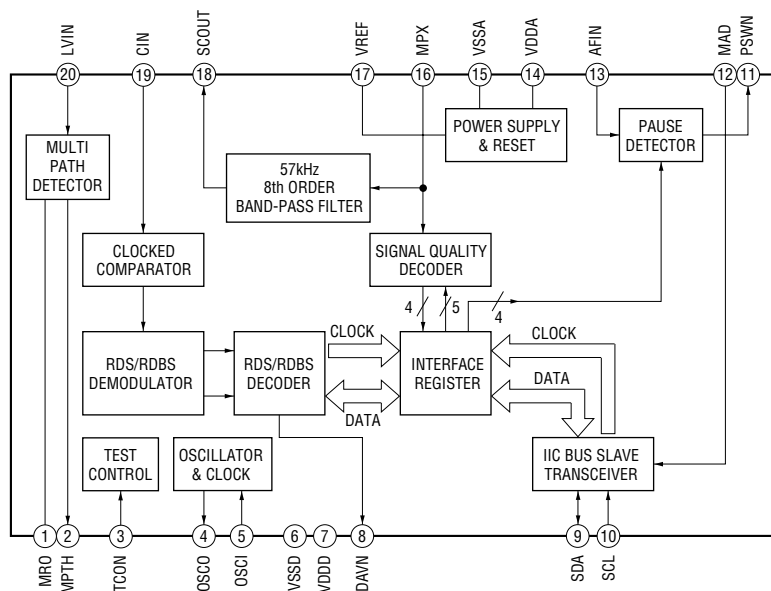
IC620 NJM2377M(Te2) (MAIN Board (2/3))



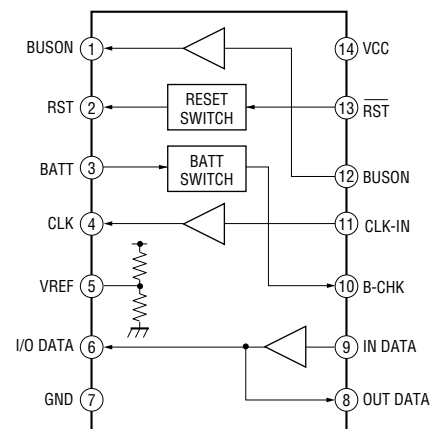
IC201 TDA8588AJ/N2 (MAIN Board (2/3))



IC550 SAA6588T/V (MAIN Board (1/3))



IC110 MM1175XFF (MAIN Board (3/3))



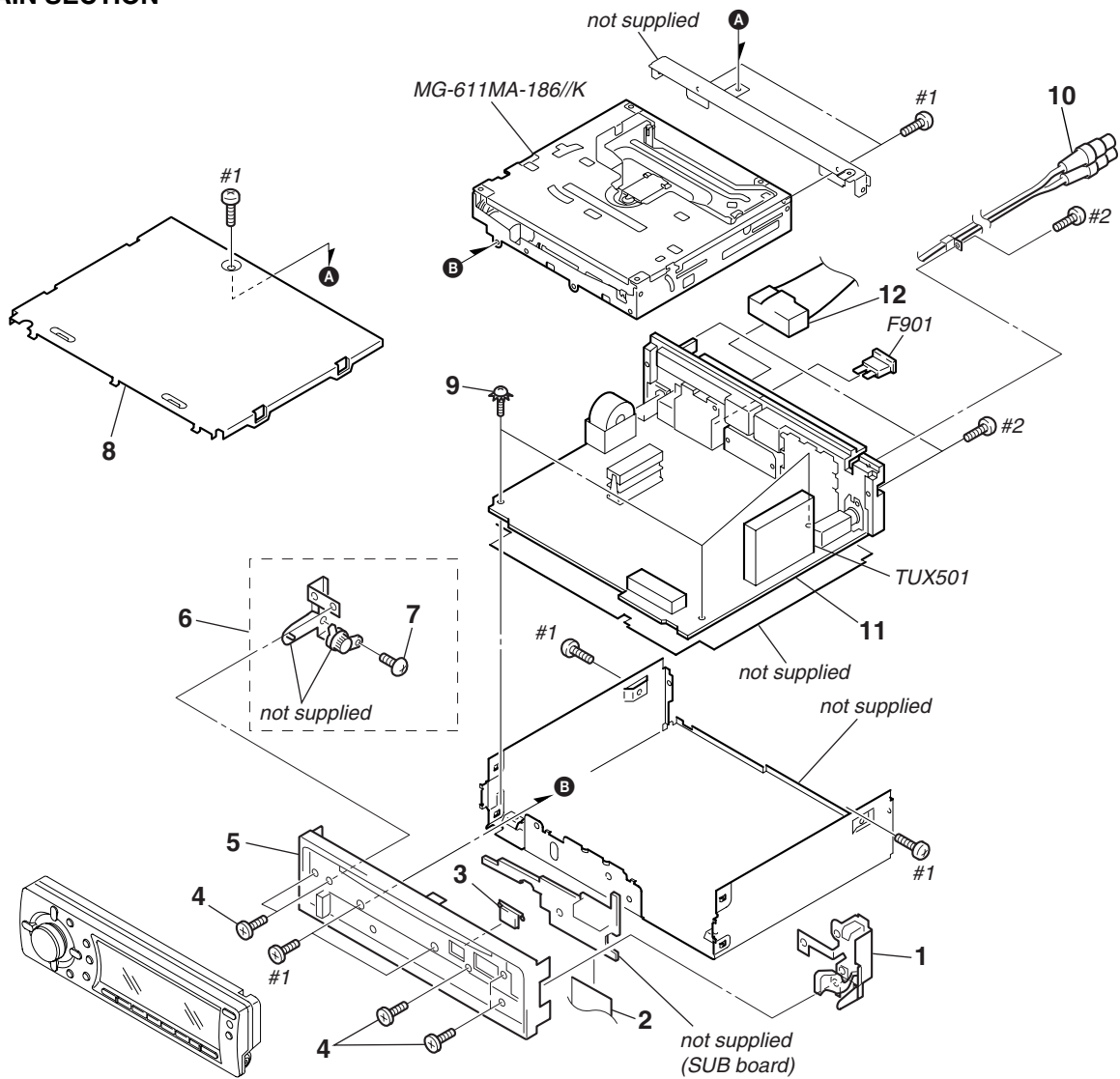
SECTION 4
EXPLODED VIEWS

- NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
 - Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts
Example :
KNOB, BALANCE (WHITE) ... (RED)
Parts Color Cabinet's Color
- Accessories are given in the last of this parts list.

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

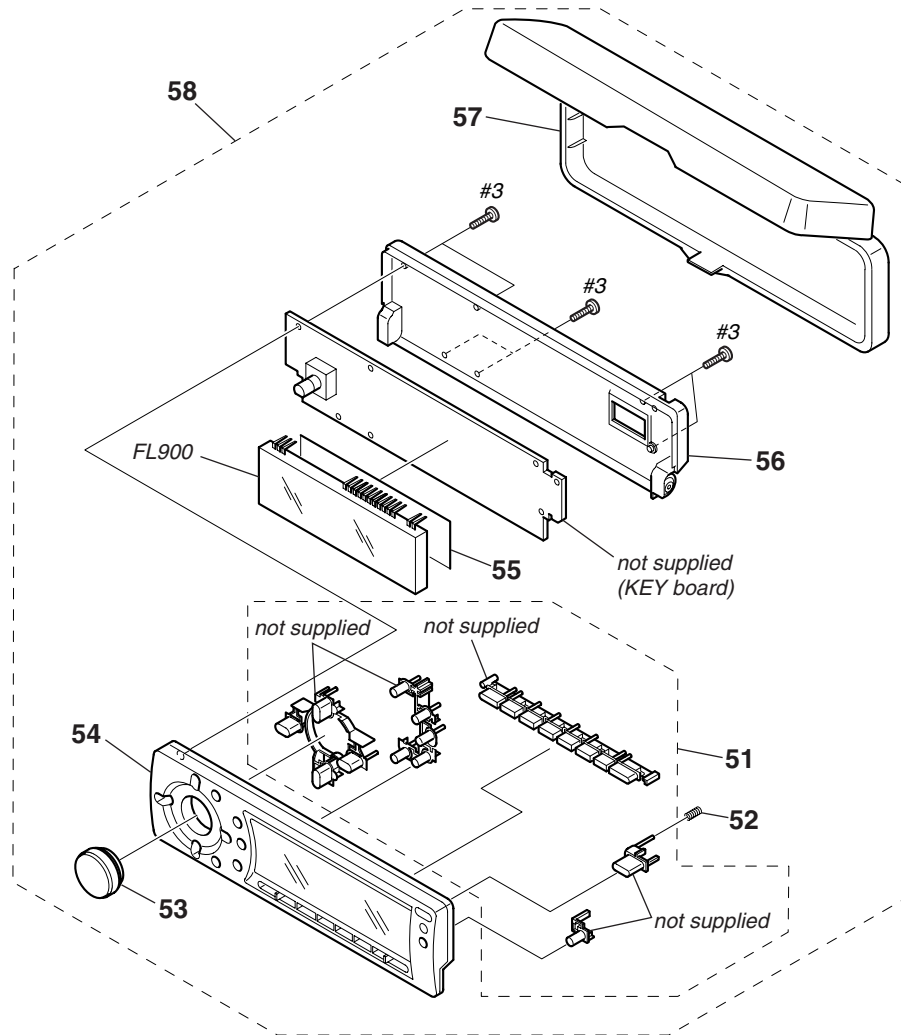
4-1. MAIN SECTION



Ref. No.	Part No.	Description	Remark
1	X-3384-273-1	LOCK ASSY	
2	1-828-511-11	CABLE, FLAT (FFC) 22P	
3	3-246-030-01	BUTTON (EJECT)	
4	3-261-903-01	SCREW (+BTT 2X5)	
5	X-3384-490-1	PANEL ASSY (CD), SUB	
6	X-3384-271-1	GEAR ASSY	
7	3-713-786-51	SCREW +P 2X3	
* 8	3-246-006-31	COVER	
9	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
10	1-790-375-12	CORD (WITH CONNECTOR) (SUB OUT (MONO))	

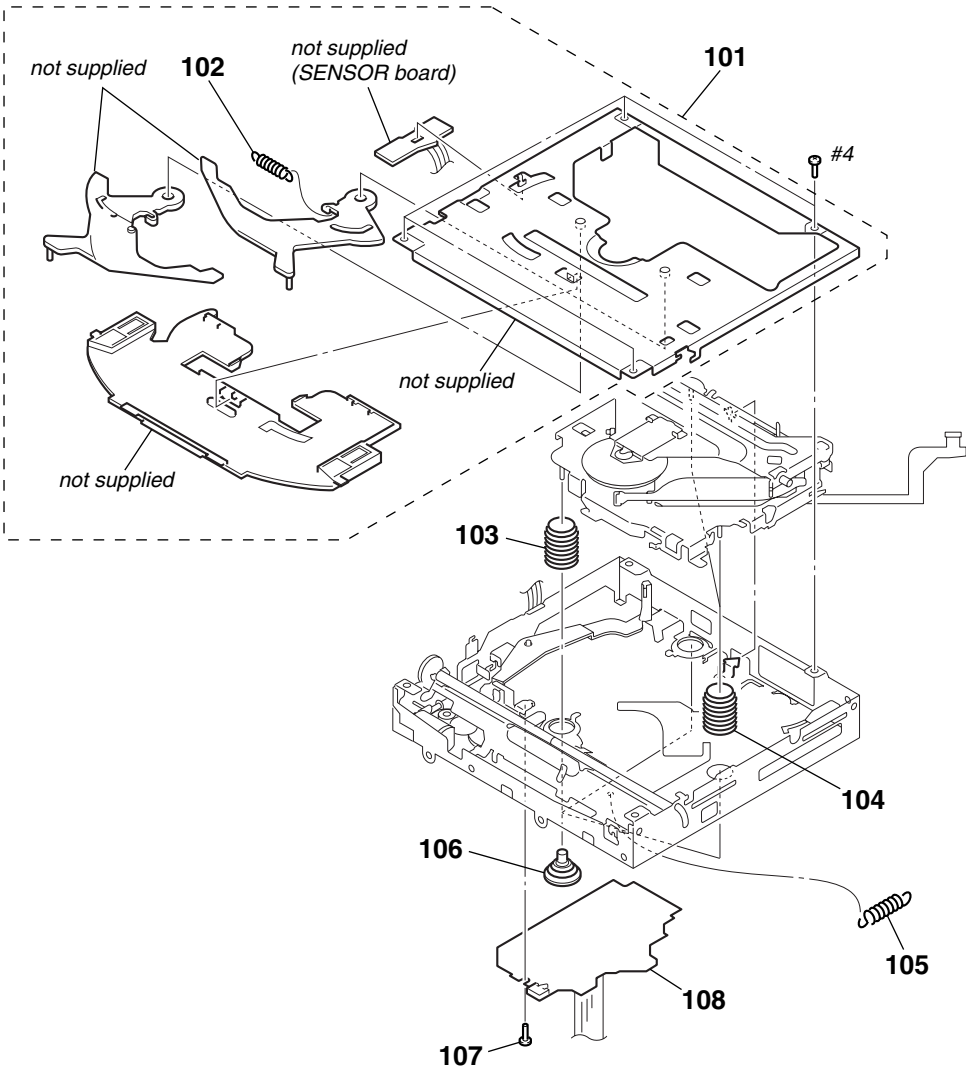
Ref. No.	Part No.	Description	Remark
11	A-3283-454-A	MAIN BOARD, COMPLETE (F7500)	
11	A-3283-460-A	MAIN BOARD, COMPLETE (F7700)	
12	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER)	(AEP,UK)
12	1-776-207-72	CORD (WITH CONNECTOR) (E)	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
TUX501	A-3220-961-A	TUNER UNIT (TUX-032//Q3)	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-793-09	SCREW +PTT 2.6X8 (S)	

4-2. FRONT PANEL SECTION



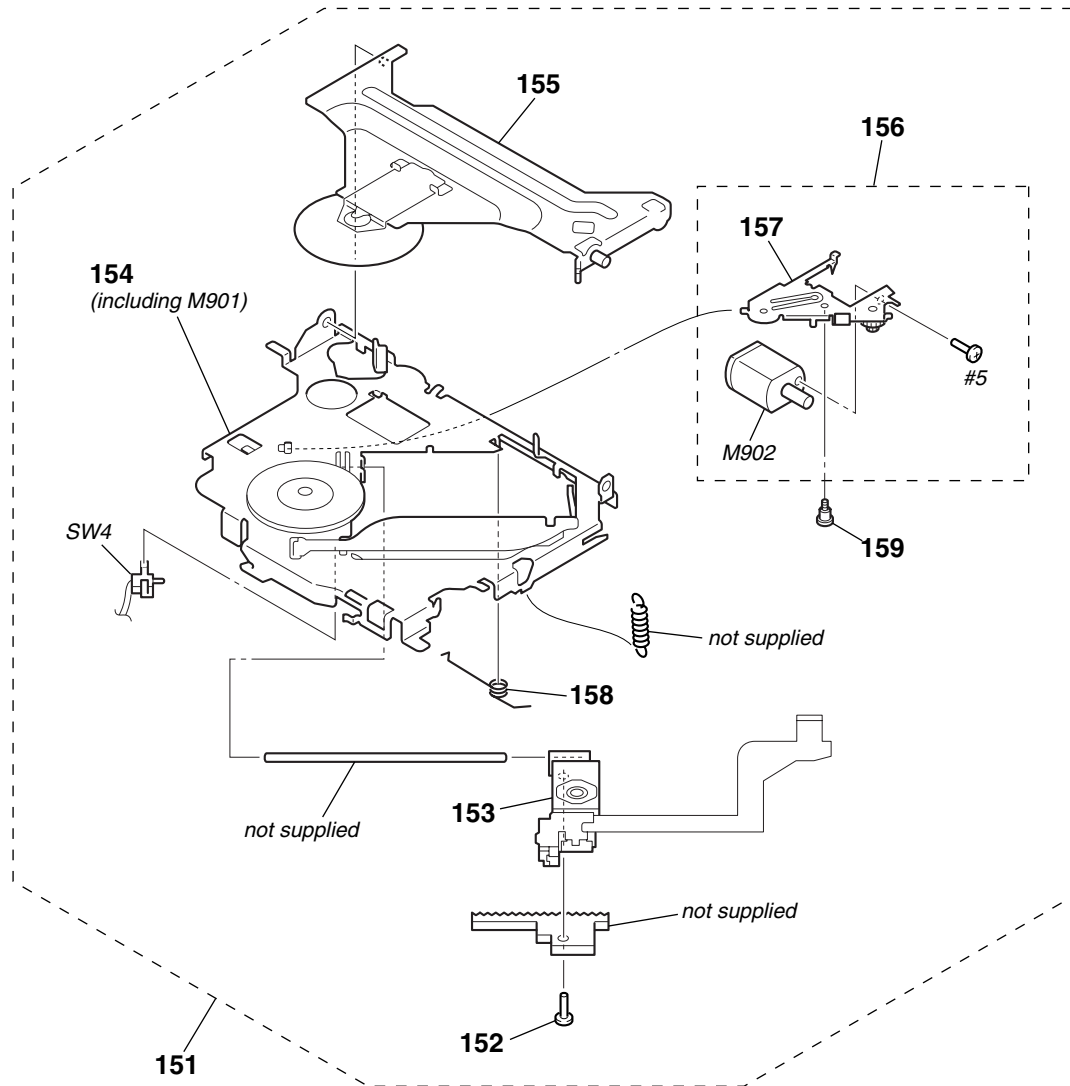
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3384-508-1	BUTTON KIT ASSY (S)		57	X-3378-390-3	CASE ASSY (for FRONT PANEL)	
52	3-265-937-01	SPRING (OPEN)		58	A-3372-637-A	COMPLETE ASSY, FRONT PANEL (F7500)	
53	X-3384-635-1	KNOB ASSY (S)		58	A-3372-685-A	COMPLETE ASSY, FRONT PANEL (E)	
54	X-3385-024-1	PANEL ASSY (S), FRONT (E)		58	A-3372-688-A	COMPLETE ASSY, FRONT PANEL (F7700:AEP,UK)	
54	X-3385-025-1	PANEL ASSY (S), FRONT (F7500)		FL900	1-518-953-11	INDICATOR TUBE, FLUORESCENT	
54	X-3385-026-1	PANEL ASSY (S), FRONT (F7700:AEP,UK)		#3	7-685-105-19	SCREW +P 2X8 TYPE2 NON-SLIT	
55	3-260-341-01	SHEET (FL)					
56	X-3384-495-1	PANEL ASSY, FRONT BACK					

4-3. CD MECHANISM SECTION (1)
(MG-611MA-186//K)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-3372-455-A	CHASSIS (T) SUB ASSY		106	3-253-748-01	DAMPER (S)	
102	3-253-729-01	SPRING (LTR), TENSION COIL		107	3-352-758-31	SCREW (M1.7), TOOTHED LOCK	
103	3-253-746-13	SPRING (DAMPER), COMPRESSION		108	A-3283-359-A	SERVO BOARD, COMPLETE	
104	3-253-746-03	SPRING (DAMPER), COMPRESSION		#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	
105	3-253-695-01	SPRING (KF), TENSION COIL					

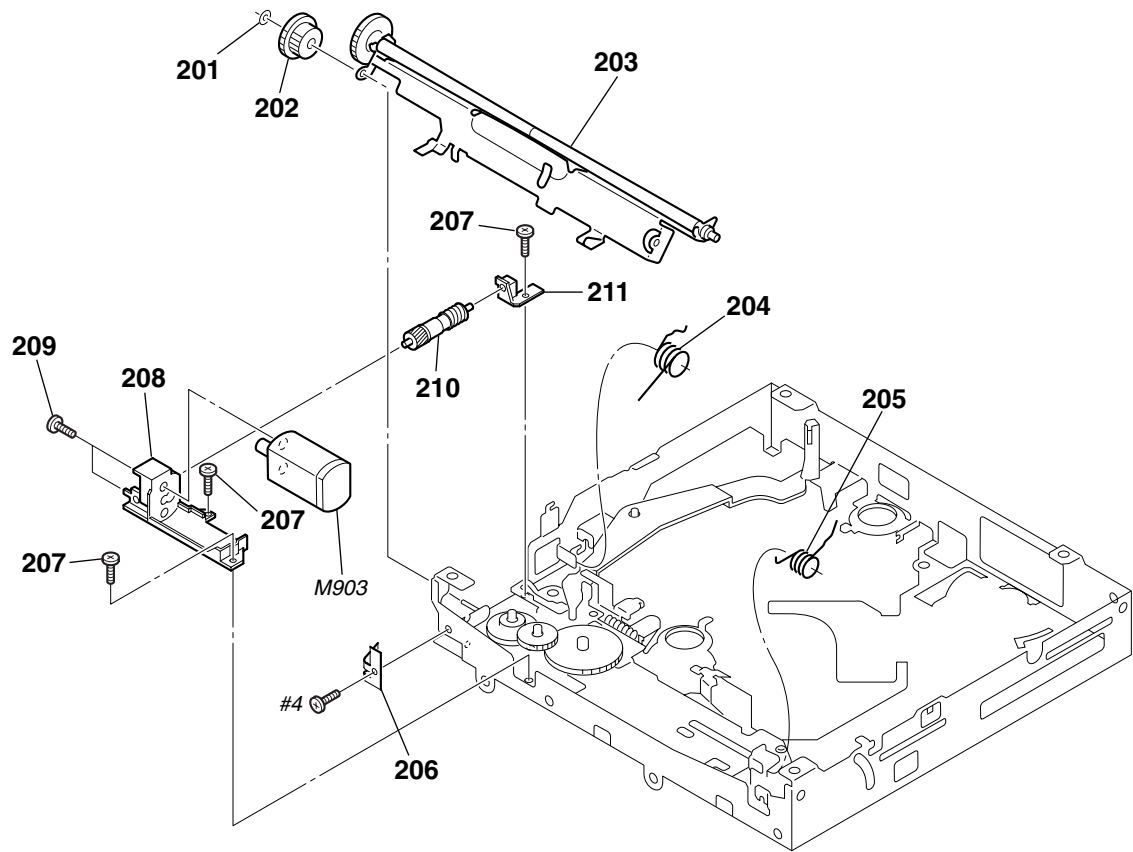
4-4. CD MECHANISM SECTION (2) (MG-611MA-186//K)



The components identified by mark \triangle or dotted line with mark. \triangle are critical for safety. Replace only with part number specified.

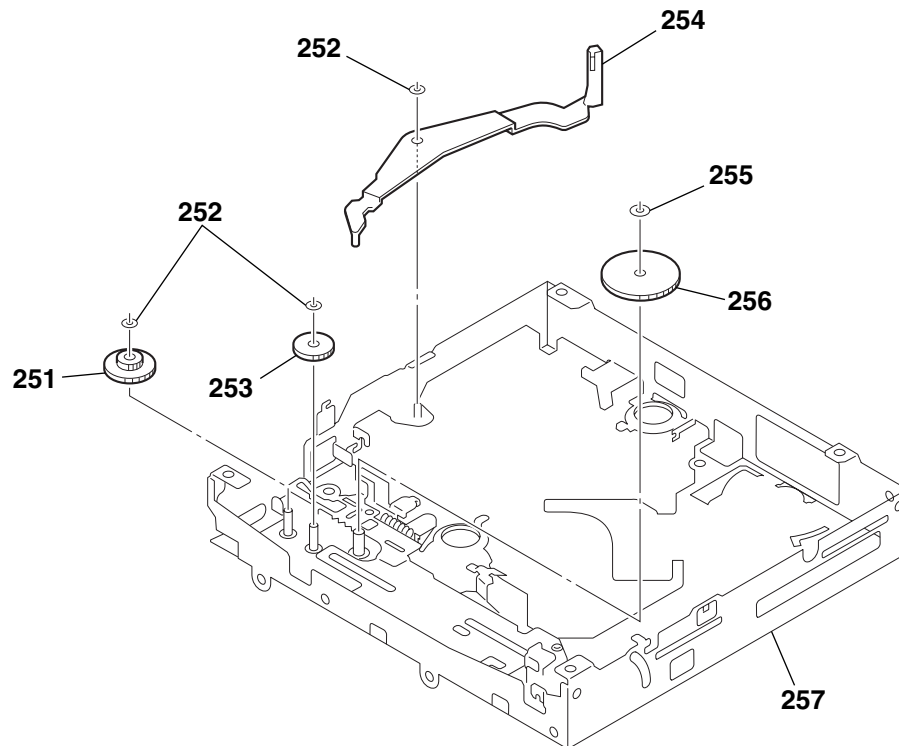
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	A-3337-637-A	CHASSIS (OP) COMPLETE ASSY		157	X-3383-454-3	LEVER (SL) ASSY	
152	3-316-938-91	SCREW (B1.4X5), TAPPING		158	3-261-959-02	SPRING (SL), TORSION	
\triangle 153	8-820-207-02	OPTICAL PICK-UP (KSS1000E/K1RP)		159	3-264-165-02	SCREW	
154	A-3337-640-A	CHASSIS (OP) SUB ASSY (including M901)		M902	A-3337-638-A	MOTOR ASSY, SL (SLED)	
155	A-3337-641-A	ARM SUB ASSY, CHUCKING		SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)	
156	A-3337-639-A	LEVER (SL) SUB ASSY		#5	7-627-850-77	SCREW, PRECISION +P 1.4X1.8	

4-5. CD MECHANISM SECTION (3)
(MG-611MA-186//K)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	3-262-755-01	WASHER (1.1-2.5)		208	3-259-467-01	BRACKET (LEM)	
202	3-259-024-01	WHEEL (RA), WORM		209	3-345-648-91	SCREW (M1.4), TOOTHED LOCK	
203	A-3337-633-A	ARM ASSY, ROLLER		210	A-3372-456-A	WORM (LEB) ASSY	
204	3-259-455-02	SPRING (RAL)		211	3-259-468-01	BEARING (LEB)	
205	3-253-713-01	SPRING (RAR)		M903	A-3372-454-A	MOTOR ASSY, LE (LOADING)	
206	3-259-469-01	SPRING (LE), LEAF		#4	7-627-552-87	SCREW, PRECISION +P 1.7X2.2	
207	2-134-636-31	SCREW (M1.7X2.5)					

4-6. CD MECHANISM SECTION (4) (MG-611MA-186//K)



Ref. No.	Part No.	Description
251	3-259-429-01	WHEEL (LE), WORM
252	3-344-223-01	WASHER
253	3-259-470-01	GEAR (LE1)
254	3-253-755-02	LEVER (D)

Remark

Ref. No.	Part No.	Description
255	3-899-829-01	WASHER (SLIT)
256	3-259-032-01	GEAR (LE2)
257	A-3372-453-A	CHASSIS (M) BLOCK ASSY

Remark

KEY

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
In each case, u : μ , for example:
uA.. : μ A.. uPA.. : μ PA..
uPB.. : μ PB.. uPC.. : μ PC.. uPD.. : μ PD..
- CAPACITORS
uF : μ F
- COILS
uH : μ H

The components identified by mark \triangle or dotted line with mark. \triangle are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
		KEY BOARD *****					
	3-260-341-01	SHEET (FL)		FB902	1-414-760-21	INDUCTOR, FERRITE BEAD	
		< CAPACITOR >		FB903	1-414-760-21	INDUCTOR, FERRITE BEAD	
C901	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		FB904	1-414-760-21	INDUCTOR, FERRITE BEAD	
C903	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		FB905	1-414-760-21	INDUCTOR, FERRITE BEAD	
C904	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V		FB906	1-414-760-21	INDUCTOR, FERRITE BEAD	
C905	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V					
C906	1-162-915-11	CERAMIC CHIP 10PF 0.5PF 50V		FB907	1-414-760-21	INDUCTOR, FERRITE BEAD	
C907	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		FB908	1-414-760-21	INDUCTOR, FERRITE BEAD	
C909	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		FB909	1-414-760-21	INDUCTOR, FERRITE BEAD	
C912	1-216-864-11	SHORT CHIP 0		FB910	1-414-760-21	INDUCTOR, FERRITE BEAD	
C913	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		FB911	1-414-760-21	INDUCTOR, FERRITE BEAD	
C915	1-164-230-11	CERAMIC CHIP 220PF 5% 50V					
C916	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		FB912	1-414-760-21	INDUCTOR, FERRITE BEAD	
C917	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V		FB913	1-414-760-21	INDUCTOR, FERRITE BEAD	
		< CONNECTOR >		FB914	1-414-760-21	INDUCTOR, FERRITE BEAD	
CN901	1-818-141-11	PLUG, CONNECTOR 20P		FB915	1-414-760-21	INDUCTOR, FERRITE BEAD	
		< DIODE >		FB916	1-414-760-21	INDUCTOR, FERRITE BEAD	
D901	8-719-978-33	DIODE DTZ-TT11-6.8B					
D902	8-719-978-33	DIODE DTZ-TT11-6.8B		FB917	1-414-760-21	INDUCTOR, FERRITE BEAD	
D903	8-719-978-33	DIODE DTZ-TT11-6.8B		FB918	1-414-760-21	INDUCTOR, FERRITE BEAD	
D904	8-719-978-33	DIODE DTZ-TT11-6.8B		FB919	1-414-760-21	INDUCTOR, FERRITE BEAD	
D909	8-719-978-33	DIODE DTZ-TT11-6.8B		FB920	1-414-760-21	INDUCTOR, FERRITE BEAD	
		< COIL >					
D910	8-719-978-33	DIODE DTZ-TT11-6.8B					
D911	8-719-069-54	DIODE UDZS-TE17-5.1B					
D912	8-719-404-50	DIODE MA111-TX					
D913	6-500-886-01	DIODE RSA6.1ENTR					
D914	8-719-978-33	DIODE DTZ-TT11-6.8B					
		< DIODE >					
D915	8-719-978-33	DIODE DTZ-TT11-6.8B (F7700)					
D916	8-719-978-33	DIODE DTZ-TT11-6.8B (F7700)					
D917	8-719-978-33	DIODE DTZ-TT11-6.8B (F7700)					
D918	8-719-978-33	DIODE DTZ-TT11-6.8B (F7700)					
D919	1-216-864-11	SHORT CHIP 0					
		< ROTARY ENCODER >					
ENC901	1-478-474-11	ENCODER, ROTARY (SOUND,VOLUME)					
		< FERRITE BEAD >					
FB901	1-414-760-21	INDUCTOR, FERRITE BEAD					

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
LED914	6-500-204-01	LED CL-190UB2-X-T (DISC/PRESET +)	(F7700)				R905	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W	
							R906	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W	
LED914	6-500-450-01	LED CL-195SR-CD-T (DISC/PRESET +)	(F7500)				R907	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
							R908	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W	
LED915	6-500-204-01	LED CL-190UB2-X-T (SEEK -/I◀◀/◀◀)	(F7700)				R909	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W	
LED915	6-500-450-01	LED CL-195SR-CD-T (SEEK -/I◀◀/◀◀)	(F7500)				R910	1-219-286-11	RES-CHIP	680	2%	1/16W	
							R911	1-219-286-11	RES-CHIP	680	2%	1/16W	
LED916	6-500-204-01	LED CL-190UB2-X-T (DISC/PRESET -)	(F7700)				R912	1-219-286-11	RES-CHIP	680	2%	1/16W	
							R913	1-218-847-11	METAL CHIP	1K	0.5%	1/10W	
							R914	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W	
LED916	6-500-450-01	LED CL-195SR-CD-T (DISC/PRESET -)	(F7500)				R915	1-218-851-11	METAL CHIP	1.5K	0.5%	1/10W	
							R916	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W	
LED917	6-500-204-01	LED CL-190UB2-X-T (DSO) (F7700)					R917	1-218-859-11	METAL CHIP	3.3K	0.5%	1/10W	
LED917	6-500-450-01	LED CL-195SR-CD-T (DSO) (F7500)					R918	1-218-811-11	METAL CHIP	150	5%	1/10W	
LED918	6-500-204-01	LED CL-190UB2-X-T (MODE) (F7700)											
LED918	6-500-450-01	LED CL-195SR-CD-T (MODE) (F7500)					R918	1-216-820-11	METAL CHIP	820	5%	1/10W	
												(F7500)	
LED919	6-500-204-01	LED CL-190UB2-X-T (VOL1) (F7700)											
LED919	6-500-450-01	LED CL-195SR-CD-T (VOL1) (F7500)											
LED920	6-500-204-01	LED CL-190UB2-X-T (VOL2) (F7700)					R919	1-216-820-11	METAL CHIP	820	5%	1/10W	
LED920	6-500-450-01	LED CL-195SR-CD-T (VOL2) (F7500)										(F7500)	
LED921	6-500-204-01	LED CL-190UB2-X-T (VOL3) (F7700)					R920	1-216-811-11	METAL CHIP	150	5%	1/10W	
												(F7700)	
LED921	6-500-450-01	LED CL-195SR-CD-T (VOL3) (F7500)					R920	1-216-820-11	METAL CHIP	820	5%	1/10W	
LED922	6-500-204-01	LED CL-190UB2-X-T (VOL4) (F7700)										(F7500)	
LED922	6-500-450-01	LED CL-195SR-CD-T (VOL4) (F7500)					R921	1-216-820-11	METAL CHIP	820	5%	1/10W	
LED923	6-500-204-01	LED CL-190UB2-X-T (OPEN) (F7700)										(F7500)	
LED923	6-500-450-01	LED CL-195SR-CD-T (OPEN) (F7500)					R922	1-216-811-11	METAL CHIP	150	5%	1/10W	
												(F7700)	
LED924	6-500-204-01	LED CL-190UB2-X-T (SOURCE) (F7700)											
LED924	6-500-450-01	LED CL-195SR-CD-T (SOURCE) (F7500)					R922	1-216-820-11	METAL CHIP	820	5%	1/10W	
		< SWITCH >					R923	1-216-820-11	METAL CHIP	820	5%	1/10W	
												(F7500)	
LSW901	1-771-883-31	SWITCH, TACTILE (WITH LED) (SOURCE)	(F7500)				R924	1-216-811-11	METAL CHIP	150	5%	1/10W	
												(F7700)	
LSW901	1-786-711-11	SWITCH, TACTILE (WITH LED) (SOURCE)	(F7700)				R924	1-216-820-11	METAL CHIP	820	5%	1/10W	
												(F7500)	
LSW902	1-771-883-31	SWITCH, TACTILE (WITH LED) (AF/TA) (F7500)					R925	1-216-820-11	METAL CHIP	820	5%	1/10W	
LSW902	1-786-711-11	SWITCH, TACTILE (WITH LED) (AF/TA) (F7700)										(F7500)	
LSW903	1-771-883-31	SWITCH, TACTILE (WITH LED) (6/PAUSE)	(F7500)				R926	1-216-811-11	METAL CHIP	150	5%	1/10W	
												(F7700)	
LSW903	1-786-711-11	SWITCH, TACTILE (WITH LED) (6/PAUSE)	(F7700)				R926	1-216-820-11	METAL CHIP	820	5%	1/10W	
												(F7500)	
LSW904	1-771-883-31	SWITCH, TACTILE (WITH LED) (5/BBE MP)	(F7500)				R927	1-216-820-11	METAL CHIP	820	5%	1/10W	
												(F7500)	
LSW904	1-786-711-11	SWITCH, TACTILE (WITH LED) (5/BBE MP)	(F7700)				R928	1-216-811-11	METAL CHIP	150	5%	1/10W	
												(F7700)	
LSW905	1-771-883-31	SWITCH, TACTILE (WITH LED) (4) (F7500)					R928	1-216-820-11	METAL CHIP	820	5%	1/10W	
LSW905	1-786-711-11	SWITCH, TACTILE (WITH LED) (4) (F7700)										(F7500)	
LSW906	1-771-883-31	SWITCH, TACTILE (WITH LED) (3) (F7500)					R929	1-216-820-11	METAL CHIP	820	5%	1/10W	
LSW906	1-786-711-11	SWITCH, TACTILE (WITH LED) (3) (F7700)										(F7500)	
LSW907	1-771-883-31	SWITCH, TACTILE (WITH LED) (2/SHUF)	(F7500)				R930	1-216-811-11	METAL CHIP	150	5%	1/10W	
												(F7700)	
LSW907	1-786-711-11	SWITCH, TACTILE (WITH LED) (2/SHUF)	(F7700)				R930	1-216-820-11	METAL CHIP	820	5%	1/10W	
												(F7500)	
LSW908	1-771-883-31	SWITCH, TACTILE (WITH LED) (1/REP) (F7500)					R931	1-216-820-11	METAL CHIP	820	5%	1/10W	
												(F7500)	
LSW908	1-786-711-11	SWITCH, TACTILE (WITH LED) (1/REP) (F7700)					R932	1-216-811-11	METAL CHIP	150	5%	1/10W	
												(F7700)	
		< RESISTOR >											
							R932	1-216-820-11	METAL CHIP	820	5%	1/10W	
R901	1-219-286-11	RES-CHIP	680	2%	1/16W							(F7500)	
R902	1-219-286-11	RES-CHIP	680	2%	1/16W								
R903	1-219-286-11	RES-CHIP	680	2%	1/16W	R933	1-216-820-11	METAL CHIP	820	5%	1/10W		
R904	1-218-847-11	METAL CHIP	1K	0.5%	1/10W							(F7500)	

CDX-F7500/F7700

KEY

MAIN

Ref. No.	Part No.	Description	Remark
R934	1-216-811-11	METAL CHIP	150 5% 1/10W (F7700)
R934	1-216-820-11	METAL CHIP	820 5% 1/10W (F7500)
R935	1-216-820-11	METAL CHIP	820 5% 1/10W (F7500)
R936	1-216-811-11	METAL CHIP	150 5% 1/10W (F7700)
R936	1-216-820-11	METAL CHIP	820 5% 1/10W (F7500)
R937	1-216-820-11	METAL CHIP	820 5% 1/10W (F7500)
R938	1-216-811-11	METAL CHIP	150 5% 1/10W (F7700)
R938	1-216-820-11	METAL CHIP	820 5% 1/10W (F7500)
R939	1-216-820-11	METAL CHIP	820 5% 1/10W (F7500)
R946	1-218-855-11	METAL CHIP	2.2K 0.5% 1/10W
R947	1-218-855-11	METAL CHIP	2.2K 0.5% 1/10W
R953	1-216-845-11	METAL CHIP	100K 5% 1/10W
R954	1-216-845-11	METAL CHIP	100K 5% 1/10W
R955	1-216-845-11	METAL CHIP	100K 5% 1/10W
R958	1-216-845-11	METAL CHIP	100K 5% 1/10W
R959	1-216-845-11	METAL CHIP	100K 5% 1/10W
R960	1-216-845-11	METAL CHIP	100K 5% 1/10W
R961	1-216-005-00	RES-CHIP	15 5% 1/10W
R970	1-216-833-11	METAL CHIP	10K 5% 1/10W
R971	1-216-833-11	METAL CHIP	10K 5% 1/10W
R972	1-216-809-11	METAL CHIP	100 5% 1/10W
R973	1-216-831-11	METAL CHIP	6.8K 5% 1/10W
R975	1-216-845-11	METAL CHIP	100K 5% 1/10W
R976	1-216-819-11	METAL CHIP	680 5% 1/10W
R977	1-216-821-11	METAL CHIP	1K 5% 1/10W
R978	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
R979	1-216-821-11	METAL CHIP	1K 5% 1/10W (F7700)
R979	1-216-823-11	METAL CHIP	1.5K 5% 1/10W (F7500)
R980	1-216-821-11	METAL CHIP	1K 5% 1/10W (F7700)
R980	1-216-823-11	METAL CHIP	1.5K 5% 1/10W (F7500)
R981	1-216-823-11	METAL CHIP	1.5K 5% 1/10W (F7500)
R982	1-216-821-11	METAL CHIP	1K 5% 1/10W
R983	1-216-821-11	METAL CHIP	1K 5% 1/10W (F7700)
R983	1-216-823-11	METAL CHIP	1.5K 5% 1/10W (F7500)
R984	1-216-821-11	METAL CHIP	1K 5% 1/10W (F7700)
R984	1-216-823-11	METAL CHIP	1.5K 5% 1/10W (F7500)
R985	1-216-823-11	METAL CHIP	1.5K 5% 1/10W (F7500)
R987	1-216-845-11	METAL CHIP	100K 5% 1/10W
< SWITCH >			
S902	1-771-884-31	SWITCH, TACTILE (OFF)	
S903	1-771-884-31	SWITCH, TACTILE (SEEK +/->>>>>>)	

Ref. No.	Part No.	Description	Remark
S904	1-771-884-31	SWITCH, TACTILE (SEEK -/◀◀/◀◀)	
S905	1-771-884-31	SWITCH, TACTILE (DISC/PRESET +)	
S906	1-771-884-31	SWITCH, TACTILE (DISC/PRESET -)	
S907	1-771-884-31	SWITCH, TACTILE (MODE)	
S908	1-771-884-31	SWITCH, TACTILE (DSO)	
S909	1-771-884-31	SWITCH, TACTILE (SCRL)	
S910	1-771-884-31	SWITCH, TACTILE (EQ7)	
S912	1-771-884-31	SWITCH, TACTILE (IMAGE)	
< VIBRATOR >			
X901	1-813-250-11	VIBRATOR, CRYSTAL (SMD) (8MHz)	

A-3283-454-A	MAIN BOARD, COMPLETE (F7500)		
A-3283-460-A	MAIN BOARD, COMPLETE (F7700)		

7-685-134-19	SCREW +P 2.6X8 TYPE2 NON-SLIT		
7-685-793-09	SCREW +PTT 2.6X8 (S)		
7-685-795-09	SCREW +PTT 2.6X12 (S)		
< CAPACITOR >			
C101	1-126-940-11	ELECT	330uF 20% 25V
C102	1-126-960-11	ELECT	1uF 20% 50V
C103	1-131-868-81	ELECT	3300uF 20% 16V
C106	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V
C110	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C111	1-107-826-11	CERAMIC CHIP	0.1uF 10% 16V
C142	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C172	1-126-044-11	ELECT	1uF 20% 50V
C173	1-124-721-11	ELECT	10uF 20% 50V
C173	1-126-964-11	ELECT	10uF 20% 50V
C178	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C182	1-126-044-11	ELECT	1uF 20% 50V
C183	1-124-721-11	ELECT	10uF 20% 50V
C183	1-126-964-11	ELECT	10uF 20% 50V
C188	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C199	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V
C201	1-115-467-11	CERAMIC CHIP	0.22uF 10% 10V
C202	1-162-923-11	CERAMIC CHIP	47PF 5% 50V
C203	1-126-961-11	ELECT	2.2uF 20% 50V
C204	1-124-695-11	ELECT	22uF 20% 25V
C204	1-126-965-11	ELECT	22uF 20% 25V
C205	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V
C206	1-125-891-11	CERAMIC CHIP	0.47uF 10% 10V
C207	1-125-891-11	CERAMIC CHIP	0.47uF 10% 10V
C208	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C209	1-162-927-11	CERAMIC CHIP	100PF 5% 50V
C210	1-115-340-11	CERAMIC CHIP	0.22uF 10% 25V
C211	1-165-908-11	CERAMIC CHIP	1uF 10% 10V
C212	1-126-964-11	ELECT	10uF 20% 50V
C214	1-126-964-11	ELECT	10uF 20% 50V

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C215	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	C400	1-124-721-11	ELECT	10uF	20%	50V (F7700)
C216	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C401	1-126-947-11	ELECT	47uF	20%	35V
C217	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C403	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C218	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	C416	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C219	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	C417	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C221	1-126-933-11	ELECT	100uF	20%	16V	C418	1-124-721-11	ELECT	10uF	20%	50V (F7700)
C223	1-126-964-11	ELECT	10uF	20%	50V	C418	1-126-964-11	ELECT	10uF	20%	50V (F7500)
C225	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V	C419	1-126-959-11	ELECT	0.47uF	20%	50V
C226	1-126-964-11	ELECT	10uF	20%	50V	C420	1-126-959-11	ELECT	0.47uF	20%	50V
C227	1-115-340-11	CERAMIC CHIP	0.22uF	10%	25V	C421	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V
C242	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C422	1-124-673-11	ELECT	100uF	20%	10V (F7700)
C271	1-126-964-11	ELECT	10uF	20%	50V	C422	1-126-933-11	ELECT	100uF	20%	16V (F7500)
C272	1-126-044-11	ELECT	1uF	20%	50V (F7700)	C423	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C273	1-124-721-11	ELECT	10uF	20%	50V (F7700)	C424	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C273	1-126-964-11	ELECT	10uF	20%	50V (F7500)	C425	1-136-154-00	FILM	0.012uF	5%	50V
C278	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C426	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C282	1-126-044-11	ELECT	1uF	20%	50V (F7700)	C427	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C283	1-124-721-11	ELECT	10uF	20%	50V (F7700)	C428	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C283	1-126-964-11	ELECT	10uF	20%	50V (F7500)	C429	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C288	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C430	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C303	1-126-933-11	ELECT	100uF	20%	16V	C431	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C304	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C432	1-136-154-00	FILM	0.012uF	5%	50V
C306	1-126-933-11	ELECT	100uF	20%	16V	C433	1-126-960-11	ELECT	1uF	20%	50V
C307	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C434	1-126-960-11	ELECT	1uF	20%	50V
C308	1-126-044-11	ELECT	1uF	20%	50V (F7700)	C435	1-126-960-11	ELECT	1uF	20%	50V
C308	1-126-960-11	ELECT	1uF	20%	50V (F7500)	C436	1-164-156-11	CERAMIC CHIP	0.1uF		25V (F7700)
C309	1-126-044-11	ELECT	1uF	20%	50V (F7700)	C437	1-124-673-11	ELECT	100uF	20%	10V (F7700)
C309	1-126-960-11	ELECT	1uF	20%	50V (F7500)	C438	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V (F7700)
C311	1-125-710-11	DOUBLE LAYERS	0.1F		5.5V	C439	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V (F7700)
C312	1-126-933-11	ELECT	100uF	20%	16V	C440	1-124-673-11	ELECT	100uF	20%	10V (F7700)
C313	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C441	1-124-721-11	ELECT	10uF	20%	50V (F7700)
C315	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C442	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C316	1-162-918-11	CERAMIC CHIP	18PF	5%	50V	C443	1-126-964-11	ELECT	10uF	20%	50V
C317	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C444	1-124-721-11	ELECT	10uF	20%	50V (F7700)
C318	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	C445	1-124-721-11	ELECT	10uF	20%	50V (F7700)
C319	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C446	1-124-721-11	ELECT	10uF	20%	50V (F7700)
C320	1-126-961-11	ELECT	2.2uF	20%	50V	C447	1-124-721-11	ELECT	10uF	20%	50V (F7700)
C321	1-126-964-11	ELECT	10uF	20%	50V	C448	1-124-721-11	ELECT	10uF	20%	50V (F7700)
C322	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	C449	1-124-721-11	ELECT	10uF	20%	50V (F7700)
C323	1-162-920-11	CERAMIC CHIP	27PF	5%	50V	C450	1-124-721-11	ELECT	10uF	20%	50V (F7700)
C324	1-126-964-11	ELECT	10uF	20%	50V	C451	1-124-721-11	ELECT	10uF	20%	50V (F7700)
C325	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C330	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V						
C332	1-164-156-11	CERAMIC CHIP	0.1uF		25V						
C333	1-126-933-11	ELECT	100uF	20%	16V						
C334	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C335	1-126-933-11	ELECT	100uF	20%	16V						
C336	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C341	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V						
C342	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V						

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C452	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D109	8-719-200-82	DIODE 11ES2
C453	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D110	8-719-053-18	DIODE 1SR154-400TE-25
C470	1-126-960-11	ELECT	1uF	20%	D111	8-719-053-18	DIODE 1SR154-400TE-25
C475	1-107-826-11	CERAMIC CHIP	0.1uF	10%	D112	8-719-053-18	DIODE 1SR154-400TE-25
C501	1-162-970-11	CERAMIC CHIP	0.01uF	10%	D113	8-719-053-18	DIODE 1SR154-400TE-25
C502	1-126-964-11	ELECT	10uF	20%	D114	8-719-053-18	DIODE 1SR154-400TE-25
C503	1-126-963-11	ELECT	4.7uF	20%	D115	8-719-053-18	DIODE 1SR154-400TE-25
C507	1-126-933-11	ELECT	100uF	20%	D116	8-719-053-18	DIODE 1SR154-400TE-25
C508	1-125-837-11	CERAMIC CHIP	1uF	10%	D117	8-719-053-18	DIODE 1SR154-400TE-25
C509	1-125-837-11	CERAMIC CHIP	1uF	10%	D118	6-500-508-01	DIODE RR263M-400FTR
C510	1-135-834-11	CERAMIC CHIP	2.2uF	6.3V	D119	6-500-508-01	DIODE RR263M-400FTR
C511	1-162-970-11	CERAMIC CHIP	0.01uF	10%	D120	6-500-508-01	DIODE RR263M-400FTR
C550	1-162-926-11	CERAMIC CHIP	82PF	5%	D121	6-500-508-01	DIODE RR263M-400FTR
C551	1-162-923-11	CERAMIC CHIP	47PF	5%	D122	8-719-978-33	DIODE DTZ-TT11-6.8B
C552	1-162-970-11	CERAMIC CHIP	0.01uF	10%	D123	8-719-200-82	DIODE 11ES2
C553	1-126-947-11	ELECT	47uF	20%	D271	8-719-801-78	DIODE 1SS184
C554	1-162-970-11	CERAMIC CHIP	0.01uF	10%	D275	8-719-420-51	DIODE MA729
C555	1-135-834-11	CERAMIC CHIP	2.2uF	6.3V	D301	8-719-420-51	DIODE MA729
C556	1-164-739-11	CERAMIC CHIP	560PF	5%	D302	8-719-420-51	DIODE MA729
C557	1-162-959-11	CERAMIC CHIP	330PF	5%	D305	8-719-988-61	DIODE 1SS355TE-17
C558	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	D306	8-719-988-61	DIODE 1SS355TE-17
C620	1-104-665-11	ELECT	100uF	20%	D401	8-719-404-50	DIODE MA111-TX
C621	1-128-552-11	ELECT	47uF	20%	D403	8-719-069-55	DIODE UDZS-TE17-5.6B
C622	1-126-934-11	ELECT	220uF	20%	D501	8-719-069-55	DIODE UDZS-TE17-5.6B
C623	1-126-964-11	ELECT	10uF	20%	D601	8-719-978-33	DIODE DTZ-TT11-6.8B
C624	1-164-315-11	CERAMIC CHIP	470PF	5%	D602	8-719-978-33	DIODE DTZ-TT11-6.8B
C625	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	D603	8-719-978-33	DIODE DTZ-TT11-6.8B
C626	1-107-826-11	CERAMIC CHIP	0.1uF	10%	D604	8-719-978-33	DIODE DTZ-TT11-6.8B
C627	1-162-923-11	CERAMIC CHIP	47PF	5%	D605	6-500-886-01	DIODE RSA6.1ENTR
C628	1-107-826-11	CERAMIC CHIP	0.1uF	10%	D606	6-500-886-01	DIODE RSA6.1ENTR
C629	1-126-933-11	ELECT	100uF	20%	D620	8-719-053-18	DIODE 1SR154-400TE-25
C901	1-126-965-11	ELECT	22uF	20%	D621	8-719-053-18	DIODE 1SR154-400TE-25
C903	1-126-963-11	ELECT	4.7uF	20%	D622	8-719-055-33	DIODE D1FL40
C928	1-164-156-11	CERAMIC CHIP	0.1uF	25V	D623	8-719-055-30	DIODE D1FS4A-TA
C930	1-126-965-11	ELECT	22uF	20%	D624	8-719-055-30	DIODE D1FS4A-TA
< CONNECTOR >				D625	8-719-083-66	DIODE UDZS-TE17-18B	
* CN401	1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P		D626	8-719-069-54	DIODE UDZS-TE17-5.1B	
CN601	1-569-915-11	SOCKET, CONNECTOR 22P		D627	8-719-420-51	DIODE MA729	
CNP101	1-774-701-21	PIN, CONNECTOR 16P		D904	8-719-801-78	DIODE 1SS184	
CNP102	1-580-907-41	PLUG, CONNECTOR (BUS CONTROL IN)		D907	8-719-988-61	DIODE 1SS355TE-17	
CNP301	1-817-536-11	CONNECTOR, BOARD TO BOARD 28P		D909	8-719-988-61	DIODE 1SS355TE-17	
< JACK >				D910	8-719-069-55	DIODE UDZS-TE17-5.6B	
CNJ101	1-764-270-21	JACK, STEREO MINIATURE (DIA.3.5)	(REMOTE IN)	D911	8-719-420-51	DIODE MA729	
< DIODE >				< FERRITE BEAD >			
D101	8-719-083-66	DIODE UDZS-TE17-18B		FB324	1-414-813-11	FERRITE, EMI (SMD)	
D102	8-719-083-66	DIODE UDZS-TE17-18B		FB325	1-414-813-11	FERRITE, EMI (SMD)	
D103	8-719-420-51	DIODE MA729		FB326	1-414-813-11	FERRITE, EMI (SMD)	
D104	8-719-069-56	DIODE UDZS-TE17-6.2B		FB327	1-414-813-11	FERRITE, EMI (SMD)	
D105	8-719-083-66	DIODE UDZS-TE17-18B		FB328	1-414-813-11	FERRITE, EMI (SMD)	
D106	8-719-978-33	DIODE DTZ-TT11-6.8B		FB329	1-216-295-11	SHORT CHIP	0
D108	8-719-083-66	DIODE UDZS-TE17-18B		FB330	1-216-295-11	SHORT CHIP	0
< IC >				FB441	1-414-813-11	FERRITE, EMI (SMD)	
IC110	8-759-096-16	IC MM1175XFF		FB442	1-414-813-11	FERRITE, EMI (SMD)	
IC201	6-705-359-01	IC TDA8588AJ/N2					

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
IC252	8-759-679-05	IC TC7WH34FU(TE12R)		Q452	6-550-752-01	TRANSISTOR DTC614TKT146 (F7700)	
IC271	6-705-373-01	IC MM3123DPLE		Q453	6-550-752-01	TRANSISTOR DTC614TKT146 (F7700)	
IC273	8-759-679-05	IC TC7WH34FU(TE12R)		Q470	6-550-752-01	TRANSISTOR DTC614TKT146	
IC302	8-759-658-25	IC PST3432UL		Q501	8-729-920-85	TRANSISTOR 2SD1664-QR	
IC303	6-803-990-01	IC M30624MGP-123GP		Q601	8-729-055-91	TRANSISTOR SRA2202SF	
IC401	6-703-303-01	IC TDA7416		Q602	8-729-055-95	TRANSISTOR SRC1204SF	
IC402	6-703-419-01	IC LA2901V-TLM-E (F7700)		Q620	8-729-048-72	FET 2SK2615	
IC431	6-705-720-01	IC RC4580IDR (F7700)		Q621	8-729-055-91	TRANSISTOR SRA2202SF	
IC451	6-705-720-01	IC RC4580IDR (F7700)		Q622	8-729-055-95	TRANSISTOR SRC1204SF	
IC470	6-705-720-01	IC RC4580IDR (F7700)		Q623	8-729-055-95	TRANSISTOR SRC1204SF	
IC550	6-703-809-01	IC SAA6588T/V2-518		Q624	6-550-828-01	FET RSQ035P03TR	
IC620	6-705-542-01	IC NJM2377M(TE2)		Q907	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< JACK >		Q914	8-729-055-91	TRANSISTOR SRA2202SF	
J601	1-793-598-11	JACK (ANTENNA)		Q915	8-729-015-11	TRANSISTOR 2SD1802FAST-TL	
		< JUMPER RESISTOR >		Q916	8-729-055-94	TRANSISTOR SRC1202SF	
JR301	1-216-864-11	SHORT CHIP 0				< RESISTOR >	
JR302	1-162-927-11	CERAMIC CHIP 100PF 5% 50V		R101	1-216-077-11	RES-CHIP 15K 5% 1/10W	
		< COIL >		R102	1-216-049-11	RES-CHIP 1K 5% 1/10W	
L101	1-456-617-11	COIL, CHOKE 250uH		R103	1-216-821-11	METAL CHIP 1K 5% 1/10W	
L301	1-414-394-41	INDUCTOR 2.2uH		R104	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
L302	1-414-394-41	INDUCTOR 2.2uH		R105	1-216-841-11	METAL CHIP 47K 5% 1/10W	
L303	1-414-398-11	INDUCTOR 10uH		R106	1-216-841-11	METAL CHIP 47K 5% 1/10W	
L320	1-414-394-41	INDUCTOR 2.2uH		R107	1-216-073-00	RES-CHIP 10K 5% 1/10W	
L401	1-414-394-41	INDUCTOR 2.2uH		R108	1-216-073-00	RES-CHIP 10K 5% 1/10W	
L501	1-216-296-11	SHORT CHIP 0		R109	1-216-833-11	METAL CHIP 10K 5% 1/10W	
L502	1-414-394-41	INDUCTOR 2.2uH		R110	1-216-833-11	METAL CHIP 10K 5% 1/10W	
L503	1-414-394-41	INDUCTOR 2.2uH		R111	1-216-841-11	METAL CHIP 47K 5% 1/10W	
L620	1-456-729-11	COIL, POWER		R112	1-216-821-11	METAL CHIP 1K 5% 1/10W	
L901	1-414-394-41	INDUCTOR 2.2uH		R114	1-216-809-11	METAL CHIP 100 5% 1/10W	
		< JACK >		R115	1-216-809-11	METAL CHIP 100 5% 1/10W	
PJ401	1-774-700-11	JACK, PIN 6P (BUS AUDIO IN, AUDIO OUT REAR/FRONT)		R116	1-216-809-11	METAL CHIP 100 5% 1/10W	
		< TRANSISTOR >		R117	1-216-797-11	METAL CHIP 10 5% 1/10W	
Q101	8-729-055-94	TRANSISTOR SRC1202SF		R118	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
Q102	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R142	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
Q103	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R143	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q110	8-729-055-91	TRANSISTOR SRA2202SF		R172	1-216-295-11	SHORT CHIP 0 (F7500)	
Q111	8-729-055-94	TRANSISTOR SRC1202SF		R174	1-216-809-11	METAL CHIP 100 5% 1/10W (F7500)	
Q112	8-729-055-91	TRANSISTOR SRA2202SF		R174	1-216-813-11	METAL CHIP 220 5% 1/10W (F7700)	
Q171	6-550-752-01	TRANSISTOR DTC614TKT146		R175	1-216-841-11	METAL CHIP 47K 5% 1/10W	
Q181	6-550-752-01	TRANSISTOR DTC614TKT146		R182	1-216-295-11	SHORT CHIP 0 (F7500)	
Q267	8-729-055-94	TRANSISTOR SRC1202SF		R184	1-216-809-11	METAL CHIP 100 5% 1/10W (F7500)	
Q270	8-729-053-84	FET SSM3K09FU(T5LSONY1)		R184	1-216-813-11	METAL CHIP 220 5% 1/10W (F7700)	
Q271	6-550-752-01	TRANSISTOR DTC614TKT146		R185	1-216-841-11	METAL CHIP 47K 5% 1/10W	
Q273	8-729-053-84	FET SSM3K09FU(T5LSONY1)		R201	1-216-841-11	METAL CHIP 47K 5% 1/10W	
Q281	6-550-752-01	TRANSISTOR DTC614TKT146		R202	1-216-809-11	METAL CHIP 100 5% 1/10W	
Q380	8-729-055-95	TRANSISTOR SRC1204SF		R203	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q401	8-729-055-95	TRANSISTOR SRC1204SF		R204	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q402	8-729-055-91	TRANSISTOR SRA2202SF		R205	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q408	8-729-053-84	FET SSM3K09FU(T5LSONY1)		R206	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q450	6-550-752-01	TRANSISTOR DTC614TKT146 (F7700)		R240	1-216-049-11	RES-CHIP 1K 5% 1/10W	
Q451	6-550-752-01	TRANSISTOR DTC614TKT146 (F7700)		R241	1-216-049-11	RES-CHIP 1K 5% 1/10W	
				R242	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
				R243	1-216-833-11	METAL CHIP 10K 5% 1/10W	
				R267	1-216-845-11	METAL CHIP 100K 5% 1/10W	

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Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R270	1-216-837-11	METAL CHIP	22K	5%	1/10W	R402	1-216-813-11	METAL CHIP	220	5%	1/10W
R271	1-216-845-11	METAL CHIP	100K	5%	1/10W						(F7700)
R272	1-216-295-11	SHORT CHIP	0 (F7500)			R402	1-216-864-11	SHORT CHIP	0 (F7500)		
R273	1-216-837-11	METAL CHIP	22K	5%	1/10W	R403	1-216-295-11	SHORT CHIP	0		
R274	1-216-809-11	METAL CHIP	100	5%	1/10W	R407	1-216-841-11	METAL CHIP	47K	5%	1/10W
					(F7500)	R408	1-216-809-11	METAL CHIP	100	5%	1/10W
R274	1-216-813-11	METAL CHIP	220	5%	1/10W	R410	1-216-295-11	SHORT CHIP	0		
					(F7700)	R414	1-216-833-11	METAL CHIP	10K	5%	1/10W
R275	1-216-841-11	METAL CHIP	47K	5%	1/10W	R415	1-216-833-11	METAL CHIP	10K	5%	1/10W
R282	1-216-295-11	SHORT CHIP	0 (F7500)			R416	1-216-809-11	METAL CHIP	100	5%	1/10W
R284	1-216-809-11	METAL CHIP	100	5%	1/10W	R417	1-216-809-11	METAL CHIP	100	5%	1/10W
					(F7500)	R418	1-216-809-11	METAL CHIP	100	5%	1/10W
R284	1-216-813-11	METAL CHIP	220	5%	1/10W	R419	1-216-809-11	METAL CHIP	100	5%	1/10W
					(F7700)	R420	1-216-833-11	METAL CHIP	10K	5%	1/10W
R285	1-216-841-11	METAL CHIP	47K	5%	1/10W	R421	1-216-833-11	METAL CHIP	10K	5%	1/10W
R300	1-216-864-11	SHORT CHIP	0			R422	1-216-813-11	METAL CHIP	220	5%	1/10W
R301	1-216-864-11	SHORT CHIP	0			R424	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R302	1-216-845-11	METAL CHIP	100K	5%	1/10W	R426	1-216-864-11	SHORT CHIP	0		
R304	1-216-845-11	METAL CHIP	100K	5%	1/10W	R427	1-216-864-11	SHORT CHIP	0		
R311	1-216-845-11	METAL CHIP	100K	5%	1/10W	R429	1-216-086-00	RES-CHIP	36K	5%	1/10W
R312	1-216-845-11	METAL CHIP	100K	5%	1/10W						(F7700)
R314	1-216-845-11	METAL CHIP	100K	5%	1/10W	R429	1-216-295-11	SHORT CHIP	0 (F7500)		
R319	1-216-821-11	METAL CHIP	1K	5%	1/10W	R430	1-216-082-00	RES-CHIP	24K	5%	1/10W
R322	1-216-827-11	METAL CHIP	3.3K	5%	1/10W						(F7700)
R323	1-216-827-11	METAL CHIP	3.3K	5%	1/10W	R431	1-216-086-00	RES-CHIP	36K	5%	1/10W
R326	1-216-853-11	METAL CHIP	470K	5%	1/10W						(F7700)
R330	1-216-845-11	METAL CHIP	100K	5%	1/10W	R431	1-216-295-11	SHORT CHIP	0 (F7500)		
R332	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R432	1-216-082-00	RES-CHIP	24K	5%	1/10W
R333	1-216-809-11	METAL CHIP	100	5%	1/10W						(F7700)
R335	1-216-837-11	METAL CHIP	22K	5%	1/10W	R433	1-216-086-00	RES-CHIP	36K	5%	1/10W
R341	1-216-845-11	METAL CHIP	100K	5%	1/10W						(F7700)
R342	1-216-833-11	METAL CHIP	10K	5%	1/10W	R433	1-216-295-11	SHORT CHIP	0 (F7500)		
R343	1-216-845-11	METAL CHIP	100K	5%	1/10W	R434	1-216-082-00	RES-CHIP	24K	5%	1/10W
R344	1-216-833-11	METAL CHIP	10K	5%	1/10W						(F7700)
R345	1-216-833-11	METAL CHIP	10K	5%	1/10W	R435	1-216-086-00	RES-CHIP	36K	5%	1/10W
R346	1-216-833-11	METAL CHIP	10K	5%	1/10W						(F7700)
R350	1-216-809-11	METAL CHIP	100	5%	1/10W	R435	1-216-295-11	SHORT CHIP	0 (F7500)		
R351	1-216-809-11	METAL CHIP	100	5%	1/10W	R436	1-216-082-00	RES-CHIP	24K	5%	1/10W
R356	1-218-871-11	METAL CHIP	10K	0.5%	1/10W						(F7700)
R357	1-218-871-11	METAL CHIP	10K	0.5%	1/10W	R437	1-216-833-11	METAL CHIP	10K	5%	1/10W
R361	1-216-845-11	METAL CHIP	100K	5%	1/10W						(F7700)
R363	1-216-845-11	METAL CHIP	100K	5%	1/10W	R438	1-216-835-11	METAL CHIP	15K	5%	1/10W
R364	1-216-845-11	METAL CHIP	100K	5%	1/10W						(F7700)
R365	1-216-845-11	METAL CHIP	100K	5%	1/10W	R443	1-216-864-11	SHORT CHIP	0 (F7500)		
R366	1-216-845-11	METAL CHIP	100K	5%	1/10W	R444	1-216-864-11	SHORT CHIP	0 (F7500)		
R367	1-216-845-11	METAL CHIP	100K	5%	1/10W	R445	1-216-864-11	SHORT CHIP	0 (F7500)		
R369	1-216-845-11	METAL CHIP	100K	5%	1/10W	R446	1-216-864-11	SHORT CHIP	0 (F7500)		
R370	1-216-845-11	METAL CHIP	100K	5%	1/10W	R447	1-216-845-11	METAL CHIP	100K	5%	1/10W
					(F7500)						(F7700)
R371	1-216-845-11	METAL CHIP	100K	5%	1/10W	R448	1-216-845-11	METAL CHIP	100K	5%	1/10W
					(F7700)						(F7700)
R377	1-216-845-11	METAL CHIP	100K	5%	1/10W	R449	1-216-835-11	METAL CHIP	15K	5%	1/10W
R380	1-216-809-11	METAL CHIP	100	5%	1/10W						(F7700)
R381	1-216-845-11	METAL CHIP	100K	5%	1/10W	R450	1-216-833-11	METAL CHIP	10K	5%	1/10W
R385	1-216-864-11	SHORT CHIP	0								(F7700)
R391	1-216-845-11	METAL CHIP	100K	5%	1/10W	R451	1-216-835-11	METAL CHIP	15K	5%	1/10W
											(F7700)
R393	1-216-845-11	METAL CHIP	100K	5%	1/10W	R452	1-216-833-11	METAL CHIP	10K	5%	1/10W
R401	1-216-017-11	RES-CHIP	47	5%	1/10W						(F7700)
						R453	1-216-845-11	METAL CHIP	100K	5%	1/10W
											(F7700)

MAIN

SENSOR

SERVO

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R454	1-216-845-11	METAL CHIP	100K	5%	1/10W	(F7700)	R643	1-216-296-11	SHORT CHIP	0			
R455	1-216-835-11	METAL CHIP	15K	5%	1/10W	(F7700)	R910	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R456	1-216-833-11	METAL CHIP	10K	5%	1/10W	(F7700)	R920	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R457	1-216-813-11	METAL CHIP	220	5%	1/10W	(F7700)	R921	1-216-073-00	RES-CHIP	10K	5%	1/10W	
R458	1-216-813-11	METAL CHIP	220	5%	1/10W	(F7700)	R922	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R459	1-216-813-11	METAL CHIP	220	5%	1/10W	(F7700)	R929	1-216-837-11	METAL CHIP	22K	5%	1/10W	
R460	1-216-813-11	METAL CHIP	220	5%	1/10W	(F7700)	R949	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R461	1-216-841-11	METAL CHIP	47K	5%	1/10W	(F7700)	R950	1-216-057-00	RES-CHIP	2.2K	5%	1/10W	
R462	1-216-841-11	METAL CHIP	47K	5%	1/10W	(F7700)	< SWITCH >						
R463	1-216-841-11	METAL CHIP	47K	5%	1/10W	(F7700)	S300	1-786-458-11	SWITCH, PUSH (1 KEY) (NOSE DET)				
R464	1-216-841-11	METAL CHIP	47K	5%	1/10W	(F7700)	S301	1-762-638-21	SWITCH, TACTILE (RESET)				
R465	1-216-864-11	SHORT CHIP	0 (F7700)				< TRANSFORMER >						
R471	1-216-864-11	SHORT CHIP	0 (F7700)				T620	1-443-212-11	TRANSFORMER, DC-DC CONVERTER				
R472	1-216-835-11	METAL CHIP	15K	5%	1/10W	(F7700)	< THERMISTOR (POSITIVE) >						
R473	1-216-833-11	METAL CHIP	10K	5%	1/10W	(F7700)	TH100	1-801-792-21	THERMISTOR, POSITIVE				
R477	1-216-841-11	METAL CHIP	47K	5%	1/10W	(F7700)	< TUNER >						
R478	1-216-864-11	SHORT CHIP	0 (F7500)				TUX501	A-3220-961-A	TUNER UNIT (TUX-032//Q3)				
R501	1-216-821-11	METAL CHIP	1K	5%	1/10W		< VIBRATOR >						
R502	1-216-864-11	SHORT CHIP	0				X301	1-813-202-11	VIBRATOR, CRYSTAL (32.768kHz)				
R504	1-216-864-11	SHORT CHIP	0				X302	1-813-254-11	VIBRATOR, CRYSTAL (6MHz)				
R550	1-216-827-11	METAL CHIP	3.3K	5%	1/10W		X550	1-579-900-21	VIBRATOR, CRYSTAL (4.332MHz)				
R551	1-216-817-11	METAL CHIP	470	5%	1/10W		*****						
R552	1-216-797-11	METAL CHIP	10	5%	1/10W		SENSOR BOARD						
R553	1-216-797-11	METAL CHIP	10	5%	1/10W		*****						
R600	1-216-295-11	SHORT CHIP	0				< SWITCH >						
R601	1-216-029-00	RES-CHIP	150	5%	1/10W		SW2	1-529-566-61	SWITCH, PUSH (1 KEY) (SELF)				
R602	1-216-029-00	RES-CHIP	150	5%	1/10W		SW3	1-529-566-61	SWITCH, PUSH (1 KEY) (DISC IN)				
R603	1-216-029-00	RES-CHIP	150	5%	1/10W		*****						
R620	1-216-230-00	RES-CHIP	22K	5%	1/8W		A-3283-359-A SERVO BOARD, COMPLETE						
R621	1-216-230-00	RES-CHIP	22K	5%	1/8W		*****						
R622	1-218-863-11	METAL CHIP	4.7K	0.5%	1/10W		< CAPACITOR >						
R623	1-218-895-11	METAL CHIP	100K	0.5%	1/10W		C1	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R624	1-218-847-11	METAL CHIP	1K	0.5%	1/10W		C2	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R625	1-216-025-11	RES-CHIP	100	5%	1/10W		C3	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R626	1-216-848-11	METAL CHIP	180K	5%	1/10W		C4	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R627	1-216-846-11	METAL CHIP	120K	5%	1/10W		C5	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R628	1-216-841-11	METAL CHIP	47K	5%	1/10W		C6	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
R629	1-216-833-11	METAL CHIP	10K	5%	1/10W		C7	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
R630	1-216-837-11	METAL CHIP	22K	5%	1/10W		C8	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
R631	1-216-833-11	METAL CHIP	10K	5%	1/10W		C10	1-104-609-11	ELECT CHIP	100uF	20%	4V	
R632	1-216-841-11	METAL CHIP	47K	5%	1/10W		C11	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R633	1-216-809-11	METAL CHIP	100	5%	1/10W		C13	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	
R634	1-216-833-11	METAL CHIP	10K	5%	1/10W		C14	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V	
R635	1-216-864-11	SHORT CHIP	0				C16	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
R636	1-216-839-11	METAL CHIP	33K	5%	1/10W		C18	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
R642	1-216-296-11	SHORT CHIP	0				C19	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V	
							C21	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
							C22	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
							C23	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V	

SERVO

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
C24	1-162-962-11	CERAMIC CHIP	470PF	10%	50V			< JUMPER RESISTOR >					
C25	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V								
C26	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		FB1	1-216-864-11	SHORT CHIP	0			
C27	1-126-208-21	ELECT CHIP	47uF	20%	4V		FB2	1-216-864-11	SHORT CHIP	0			
C28	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		FB5	1-216-864-11	SHORT CHIP	0			
C29	1-164-156-11	CERAMIC CHIP	0.1uF		25V			< IC >					
C30	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V								
C32	1-164-156-11	CERAMIC CHIP	0.1uF		25V		IC1	6-705-366-01	IC	LA6560-TE-L-E			
C33	1-164-156-11	CERAMIC CHIP	0.1uF		25V		IC3	8-753-216-86	IC	CXD3059BR			
C34	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		IC4	6-804-028-02	IC	MB90487PFV-G-107-BNDE1			
							IC7	6-705-364-01	IC	R1114N151D-TR-FA			
							IC8	6-705-365-01	IC	TC94A34FG-002			
C35	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V			< TRANSISTOR >					
C36	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
C37	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V								
C38	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V								
C39	1-162-927-11	CERAMIC CHIP	100PF	5%	50V		Q1	8-729-904-87	TRANSISTOR	2SB1197K-R			
							Q2	8-729-928-90	TRANSISTOR	DTC114EE			
C40	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V		Q3	8-729-904-87	TRANSISTOR	2SB1197K-R			
C41	1-164-156-11	CERAMIC CHIP	0.1uF		25V		Q5	8-729-904-87	TRANSISTOR	2SB1197K-R			
C42	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		Q6	8-729-928-90	TRANSISTOR	DTC114EE			
C43	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V			< RESISTOR >					
C44	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
C45	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R1	1-218-941-81	RES-CHIP	100	5%	1/16W	
C46	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V		R2	1-218-971-11	RES-CHIP	33K	5%	1/16W	
C47	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R3	1-218-971-11	RES-CHIP	33K	5%	1/16W	
C48	1-104-609-11	ELECT CHIP	100uF	20%	4V		R4	1-218-965-11	RES-CHIP	10K	5%	1/16W	
C49	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V		R5	1-218-965-11	RES-CHIP	10K	5%	1/16W	
C50	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V		R6	1-218-965-11	RES-CHIP	10K	5%	1/16W	
C51	1-164-156-11	CERAMIC CHIP	0.1uF		25V		R7	1-208-635-11	METAL CHIP	10	0.5%	1/16W	
C52	1-100-381-11	ELECT CHIP	10uF	20%	16V		R8	1-218-971-11	RES-CHIP	33K	5%	1/16W	
C53	1-100-381-11	ELECT CHIP	10uF	20%	16V		R9	1-218-971-11	RES-CHIP	33K	5%	1/16W	
C54	1-164-156-11	CERAMIC CHIP	0.1uF		25V		R10	1-218-965-11	RES-CHIP	10K	5%	1/16W	
C55	1-164-156-11	CERAMIC CHIP	0.1uF		25V		R11	1-218-965-11	RES-CHIP	10K	5%	1/16W	
C56	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R12	1-208-635-11	METAL CHIP	10	0.5%	1/16W	
C57	1-164-156-11	CERAMIC CHIP	0.1uF		25V		R13	1-218-965-11	RES-CHIP	10K	5%	1/16W	
C58	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R14	1-218-990-11	SHORT CHIP	0			
C59	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R15	1-218-990-11	SHORT CHIP	0			
C60	1-100-381-11	ELECT CHIP	10uF	20%	16V		R16	1-218-990-11	SHORT CHIP	0			
C63	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R17	1-218-965-11	RES-CHIP	10K	5%	1/16W	
C64	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R18	1-218-965-11	RES-CHIP	10K	5%	1/16W	
C65	1-126-208-21	ELECT CHIP	47uF	20%	4V		R19	1-218-969-11	RES-CHIP	22K	5%	1/16W	
C66	1-164-156-11	CERAMIC CHIP	0.1uF		25V		R20	1-218-969-11	RES-CHIP	22K	5%	1/16W	
C67	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R21	1-218-990-11	SHORT CHIP	0			
C74	1-126-208-21	ELECT CHIP	47uF	20%	4V		R22	1-218-967-11	RES-CHIP	15K	5%	1/16W	
C75	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		R23	1-218-967-11	RES-CHIP	15K	5%	1/16W	
C77	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R24	1-218-953-11	RES-CHIP	1K	5%	1/16W	
C79	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R25	1-218-953-11	RES-CHIP	1K	5%	1/16W	
C83	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R26	1-218-981-11	RES-CHIP	220K	5%	1/16W	
C85	1-125-837-11	CERAMIC CHIP	1uF	10%	6.3V		R27	1-218-965-11	RES-CHIP	10K	5%	1/16W	
C86	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R28	1-218-990-11	SHORT CHIP	0			
C91	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R29	1-218-977-11	RES-CHIP	100K	5%	1/16W	
C92	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R37	1-218-990-11	SHORT CHIP	0			
C109	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R38	1-218-967-11	RES-CHIP	15K	5%	1/16W	
C110	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		R39	1-218-941-81	RES-CHIP	100	5%	1/16W	
C115	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V		R40	1-218-990-11	SHORT CHIP	0			
							R41	1-218-985-11	RES-CHIP	470K	5%	1/16W	
							R42	1-218-965-11	RES-CHIP	10K	5%	1/16W	
		< CONNECTOR >											
CN1	1-794-153-21	CONNECTOR, FPC (ZIF) 16P					R43	1-218-977-11	RES-CHIP	100K	5%	1/16W	
CN2	1-817-275-21	CONNECTOR, BOARD TO BOARD 28P					R44	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	
							R45	1-218-971-11	RES-CHIP	33K	5%	1/16W	

SERVO

SUB

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R46	1-218-957-11	RES-CHIP	2.2K	5%	1/16W	R128	1-218-965-11	RES-CHIP	10K	5%	1/16W
R47	1-218-977-11	RES-CHIP	100K	5%	1/16W	R129	1-218-965-11	RES-CHIP	10K	5%	1/16W
R48	1-218-941-81	RES-CHIP	100	5%	1/16W	R133	1-216-864-11	SHORT CHIP	0		
R49	1-218-953-11	RES-CHIP	1K	5%	1/16W	R136	1-218-977-11	RES-CHIP	100K	5%	1/16W
R50	1-218-941-81	RES-CHIP	100	5%	1/16W	R139	1-218-957-11	RES-CHIP	2.2K	5%	1/16W
R52	1-218-941-81	RES-CHIP	100	5%	1/16W	R140	1-218-941-81	RES-CHIP	100	5%	1/16W
R53	1-218-959-11	RES-CHIP	3.3K	5%	1/16W	R141	1-218-941-81	RES-CHIP	100	5%	1/16W
R54	1-218-961-11	RES-CHIP	4.7K	5%	1/16W	R142	1-218-941-81	RES-CHIP	100	5%	1/16W
R55	1-218-953-11	RES-CHIP	1K	5%	1/16W	R143	1-218-941-81	RES-CHIP	100	5%	1/16W
R56	1-218-973-11	RES-CHIP	47K	5%	1/16W	R144	1-218-965-11	RES-CHIP	10K	5%	1/16W
R57	1-218-941-81	RES-CHIP	100	5%	1/16W	R145	1-218-977-11	RES-CHIP	100K	5%	1/16W
R59	1-218-941-81	RES-CHIP	100	5%	1/16W	R146	1-218-941-81	RES-CHIP	100	5%	1/16W
R60	1-218-990-11	SHORT CHIP	0			R147	1-218-941-81	RES-CHIP	100	5%	1/16W
R61	1-218-985-11	RES-CHIP	470K	5%	1/16W	R148	1-218-941-81	RES-CHIP	100	5%	1/16W
R62	1-218-965-11	RES-CHIP	10K	5%	1/16W			< SWITCH >			
R64	1-218-941-81	RES-CHIP	100	5%	1/16W	SW1	1-529-565-61	SWITCH, PUSH (1 KEY) (DOWN)			
R65	1-218-941-81	RES-CHIP	100	5%	1/16W			< VIBRATOR >			
R67	1-218-941-81	RES-CHIP	100	5%	1/16W	X1	1-795-561-21	VIBRATOR, CERAMIC (16.9344MHz)			
R68	1-218-990-11	SHORT CHIP	0			X2	1-795-822-21	VIBRATOR, CERAMIC (18.43MHz)			
R69	1-218-973-11	RES-CHIP	47K	5%	1/16W			*****			
R70	1-218-945-11	RES-CHIP	220	5%	1/16W			SUB BOARD			
R71	1-218-941-81	RES-CHIP	100	5%	1/16W			*****			
R72	1-218-990-11	SHORT CHIP	0					1-828-511-11	CABLE, FLAT (FFC) 22P		
R73	1-218-941-81	RES-CHIP	100	5%	1/16W			< CONNECTOR >			
R74	1-218-941-81	RES-CHIP	100	5%	1/16W	CNP501	1-818-142-11	SOCKET, CONNECTOR 20P			
R76	1-218-941-81	RES-CHIP	100	5%	1/16W			< DIODE >			
R77	1-218-947-11	RES-CHIP	330	5%	1/16W	D990	8-719-978-33	DIODE DTZ-TT11-6.8B (F7700)			
R78	1-218-941-81	RES-CHIP	100	5%	1/16W	D991	8-719-978-33	DIODE DTZ-TT11-6.8B (F7700)			
R79	1-218-941-81	RES-CHIP	100	5%	1/16W	LED931	6-500-895-01	LED CL-270UB2-X-TS (WINDOW) (F7700)			
R80	1-218-977-11	RES-CHIP	100K	5%	1/16W	LED931	8-719-082-38	LED CL-270SR-C-TS (WINDOW) (F7500)			
R81	1-218-941-81	RES-CHIP	100	5%	1/16W	LED932	6-500-204-01	LED CL-190UB2-X-T (▲) (F7700)			
R85	1-218-973-11	RES-CHIP	47K	5%	1/16W	LED932	6-500-450-01	LED CL-195SR-CD-T (▲) (F7500)			
R86	1-218-973-11	RES-CHIP	47K	5%	1/16W			< RESISTOR >			
R87	1-218-973-11	RES-CHIP	47K	5%	1/16W	R990	1-216-809-11	METAL CHIP	100	5%	1/10W (F7700)
R91	1-220-200-81	RES-CHIP	30K	5%	1/16W	R990	1-216-817-11	METAL CHIP	470	5%	1/10W (F7500)
R92	1-218-971-11	RES-CHIP	33K	5%	1/16W	R991	1-216-817-11	METAL CHIP	470	5%	1/10W (F7500)
R96	1-218-990-11	SHORT CHIP	0					< SWITCH >			
R97	1-218-941-81	RES-CHIP	100	5%	1/16W	S901	1-771-884-31	SWITCH, TACTILE (▲)			
R98	1-218-941-81	RES-CHIP	100	5%	1/16W			*****			
R99	1-218-965-11	RES-CHIP	10K	5%	1/16W						
R101	1-218-969-11	RES-CHIP	22K	5%	1/16W						
R102	1-218-990-11	SHORT CHIP	0								
R106	1-218-969-11	RES-CHIP	22K	5%	1/16W						
R107	1-218-965-11	RES-CHIP	10K	5%	1/16W						
R108	1-218-941-81	RES-CHIP	100	5%	1/16W						
R109	1-218-953-11	RES-CHIP	1K	5%	1/16W						
R110	1-218-945-11	RES-CHIP	220	5%	1/16W						
R111	1-218-990-11	SHORT CHIP	0								
R114	1-218-941-81	RES-CHIP	100	5%	1/16W						
R115	1-218-941-81	RES-CHIP	100	5%	1/16W						
R116	1-218-941-81	RES-CHIP	100	5%	1/16W						
R117	1-218-990-11	SHORT CHIP	0								
R119	1-218-941-81	RES-CHIP	100	5%	1/16W						
R122	1-218-965-11	RES-CHIP	10K	5%	1/16W						
R123	1-218-990-11	SHORT CHIP	0								
R124	1-216-864-11	SHORT CHIP	0								
R126	1-218-965-11	RES-CHIP	10K	5%	1/16W						
R127	1-218-965-11	RES-CHIP	10K	5%	1/16W						

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS	

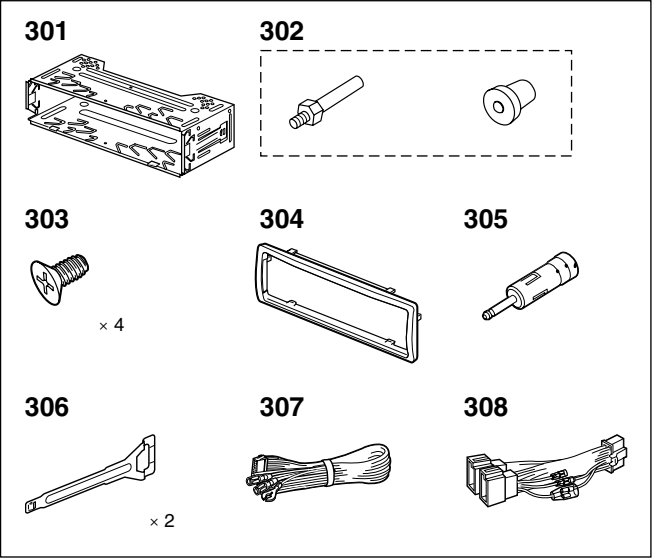
10	1-790-375-12	CORD (WITH CONNECTOR) (SUB OUT (MONO))	
12	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER)	(AEP,UK)
12	1-776-207-72	CORD (WITH CONNECTOR) (E)	
△ 153	8-820-207-02	OPTICAL PICK-UP (KSS1000E/K1RP)	
154	A-3337-640-A	CHASSIS (OP) SUB ASSY (including M901)	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
M902	A-3337-638-A	MOTOR ASSY, SL (SLED)	
M903	A-3372-454-A	MOTOR ASSY, LE (LOADING)	
SW4	1-571-099-11	SWITCH (1 KEY) (LIMIT)	

ACCESSORIES

1-477-110-51	REMOTE COMMANDER (RM-X140)	
3-230-047-01	LID, BATTERY CASE (for RM-X140)	
3-263-381-21	MANUAL, INSTRUCTION (ENGLISH, TRADITIONAL CHINESE)	(E)
3-263-381-31	MANUAL, INSTRUCTION (ENGLISH,GERMAN, FRENCH,ITALIAN,DUTCH)	(AEP,UK)
3-263-425-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, TRADITIONAL CHINESE)	(E)
3-263-425-31	MANUAL, INSTRUCTION, INSTALL (ENGLISH, GERMAN,FRENCH,ITALIAN,DUTCH)	(AEP,UK)

Ref. No.	Part No.	Description	Remark
		PARTS FOR INSTALLATION AND CONNCTIONS	

301	X-3382-647-1	FRAME ASSY, FITTING	
302	X-3366-405-1	SCREW ASSY (EXP), FITTING	
303	3-934-325-01	SCREW (+K 5X8 TP) (E)	
304	3-264-055-01	COLLAR	
305	1-465-459-21	ADAPTOR, ANTENNA (AEP,UK)	
306	3-246-471-01	KEY (FRAME)	
307	1-776-207-72	CORD (WITH CONNECTOR) (E)	
308	1-776-527-71	CORD (WITH CONNECTOR) (ISO) (POWER)	(AEP,UK)



The components identified by mark △ or dotted line with mark. △ are critical for safety. Replace only with part number specified.

MEMO

REVISION HISTORY

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